## WeaveTech Archive 0008

```
From list-errors.700002588.0.701753111.004@boing.topica.com Mon Aug 7 10:17:39 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id KAA00620 for <ralph@localhost>; Mon, 7 Aug 2000 10:17:38 -0700
Received: from bas
    by fetchmail-4.5.8 IMAP
    for <ralph/localhost> (single-drop); Mon, 07 Aug 2000 10:17:38 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
    by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA26913
    for <ralph@baskerville.cs.arizona.edu>; Tue, 1 Aug 2000 03:35:07 -0700 (MST)
Received: from outmta010.topica.com (outmta010.topica.com [206.132.75.222])
    by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA09842
    for <ralph@cs.arizona.edu>; Tue, 1 Aug 2000 03:34:30 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue }33
Date: Tue, 01 Aug 2000 03:31:32 -0700
Message-ID: <0.0.1422963411-212058698-965125892@topica.com>
X-Topica-Loop: 0
Status: R
-- Topica Digest --
    sticky beater
    By Georgean@compuserve.com
    Handwovens for sale
    By efd2@cornell.edu
    Re: textile conservation question
    By janee@softweave.com
```

Date: Mon, 31 Jul 2000 13:49:34 -0400
From: Georgean Curran [Georgean@compuserve.com](mailto:Georgean@compuserve.com)
Subject: sticky beater
Peggy, is there any chance your loom is no longer level? That might caus= e
the problems you meantioned.
Georgean Curran

Date: Mon, 31 Jul 2000 13:54:02 -0400
From: Eileen Driscoll [efd2@cornell.edu](mailto:efd2@cornell.edu)
Subject: Handwovens for sale
I have some back issues of Handwoven for sale
Jan/Feb 90
March/Apr 90
Sept/Oct 90
Sept/Oct 91
Nov/Dec 91
Jan/Feb 92
March/April 92
May/June 92
Nov/Dec 92
Jan/Feb 94
Sept/Oct 94
Contact me at efd2@cornell.edu if you are interested.

## WeaveTech Archive 0008

Date: Mon, 31 Jul 2000 17:03:07 -0400
From: Jane Eisenstein [janee@softweave.com](mailto:janee@softweave.com)
Subject: Re: textile conservation question
Thanks for the responses you sent. Opinions conflict as to what needs to be done to preserve my family embroidery. Thanks also for the pointers to textile conservators you've sent. It seems to be time to use them.

Jane
Jane Eisenstein janee@softweave.com http://www.softweave.com/

End of weavetech@topica.com digest, issue 332
From list-errors.700002588.0.701753111.004@boing.topica.com Mon Aug 7 10:18:56 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
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8.7.3) with ESMTP id KAA00644 for [ralph@localhost](mailto:ralph@localhost); Mon, 7 Aug 2000 10:18:54-0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Mon, 07 Aug 2000 10:18:54 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA08782
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Wed, 2 Aug 2000 03:35:06 -0700 (MST)
Received: from outmta014.topica.com (outmta014.topica.com [206.132.75.231])
by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA27758
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Wed, 2 Aug 2000 03:34:46 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 333
Date: Wed, 02 Aug 2000 03:31:31 -0700
Message-ID: [0.0.373718663-212058698-965212291@topica.com](mailto:0.0.373718663-212058698-965212291@topica.com)
X-Topica-Loop: 0
Status: RO
-- Topica Digest --
Sticky beater
By WC3424@aol.com
Re: Jane Eisenstein
By bnathans@mindspring.com
Making a Shrug
By Sfsaulson@aol.com
RE: Making a Shrug
By amurphy@cbcag.edu
Re: Jane Eisenstein
By janee@softweave.com

Date: Tue, 1 Aug 2000 08:17:06 EDT
From: WC3424@aol.com
Subject: Sticky beater

## WeaveTech Archive 0008

My area of Texas is unbelievably humid. The beater on my 60" AVL became so tight I couldn't swing it. Literally, it would not budge! We eventually hoisted it high enough using my husband's farm implements to keep it secure (something called a come-a-long) and sanded the arms with a palm sander. It shaved off only enough to allow the arms to swing without rubbing. Now, even on our worst days, all is well.

Charlotte in warm, humid East Texas
$\qquad$
Date: Tue, 01 Aug 2000 10:19:36 -0700
From: Barbara Nathans [bnathans@mindspring.com](mailto:bnathans@mindspring.com)
Subject: Re: Jane Eisenstein
Do look at Jane Eisensteins' web page. Her work is beautiful.
Barbara Nathans Bellport, Long Island, New York
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Date: Tue, 1 Aug 2000 12:42:48 EDT
From: Sfsaulson@aol.com
Subject: Making a Shrug
Just on the spur of the moment, I am contemplating piecing 2 scarves along a selvedge to construct a "shrug" (Sort of a "shawl", where the 2 selvedge edges are joined at the ends to create "sleeves". I've never made one before and as we are on sabbatical this year, I don't have all my books with me. Has anyone made one and if so, do you have any suggestions for dimensions, construction, etc?
Sarah Saulson

Date: Tue, 1 Aug 2000 13:40:10-0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
Subject: RE: Making a Shrug
Haven't made one, though my mother crocheted one. It was long enough to come to just above the waist, and both of us are/were long waisted. The "sleeves" were joined far enough under the arms to let some material come in the front, and the length of the sleeves came down to just below the elbow. I think she made it, more to see what it was like than to really wear it. Nice item for small chilly times, but if it is cold enough to add layers I usually favor full sweaters!
Don't know if this description helps at all, but you might if you are where you can look at older crochet books, see what it looks like. Think I have seen something similar in some handwoven garment book.
Alice in surprising cool Missouri. only in mid 80's!

Date: Tue, 1 Aug 2000 21:28:29-0400
From: Jane Eisenstein [janee@softweave.com](mailto:janee@softweave.com)
Subject: Re: Jane Eisenstein
>Do look at Jane Eisensteins' web page. Her work is beautiful.
>Barbara Nathans Bellport, Long Island, New York
Thanks Barbara. You have wonderful timing as I would like to announce an addition to my web site that can help weavers interested in doing multi-weft double weave designs.

## WeaveTech Archive 0008

I recently wrote a description for the Complex Weavers CAD Exchange group of the steps I go through to create a weave draft for multi-weft double weave designs. A version of this article can be found at http://softweave.com/html/designingMWDW.html. Writing the steps down, made me realize that some of the steps could be easily automated.

Given the tediousness of the drafting process, I decided to write a computer program to help me translate my designs into drafts. It is now available as a web based program that you can run in a web browser at http://softweave.com/html/mwdwDrafter.html.

A quick way to try out the program would be to enter a three block checkerboard double weave pattern with solid face colors set in a mid tone frame, the 3 face weaves might be:

$$
\begin{aligned}
& 1=\mathrm{D}: \text { dark } \\
& 2=\text { L: light } \\
& 3=\mathrm{D}: \text { light }
\end{aligned}
$$

The row/block weave assignments for a 3 tone 9 square framed checkerboard would be:

| 3 | 3 | 3 |
| :--- | :--- | :--- |
| 1 | 2 | 3 |
| 2 | 1 | 3 |
| 1 | 2 | 3 |
| 3 | 3 | 3 |

The resulting draft would require a different threading (threaded in 321 23 block order) to see the checkerboard in a weave program. However, I've gotten used to weaving blind and only seeing the pattern again as it appears in the cloth.

Jane

Jane Eisenstein janee@softweave.com http://www.softweave.com/

End of weavetech@topica.com digest, issue 333
From list-errors.700002588.0.701753111.004@boing.topica.com Mon Aug 7 10:19:09 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
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Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Mon, 07 Aug 2000 10:19:05 MST
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Received: from outmta004.topica.com (outmta004.topica.com [206.132.75.201]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id KAA02863 for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Wed, 2 Aug 2000 10:35:04 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 334
Date: Wed, 02 Aug 2000 10:32:14 -0700
Message-ID: [0.0.496111221-951758591-965237534@topica.com](mailto:0.0.496111221-951758591-965237534@topica.com)
X-Topica-Loop: 0
Status: R0

## WeaveTech Archive 0008

-- Topica Digest --

```
Macomber Texsolv Tie-up
By jstoll@cpcug.org
Re: Macomber Texsolv Tie-up
By rsblau@cpcug.org
By efd2@cornell.edu
RE: Macomber Texsolv Tie-up
By amurphy@cbcag.edu
handspun singles
By soloviova@earthlink.net
Re:
By apbutler@ync.net
RE: Macomber Texsolv Tie-up
By darmul@netbistro.com
RE: Macomber Texsolv Tie-up
By amurphy@cbcag.edu
Re: Digest for weavetech@topica.com, issue 333
By bnathans@mindspring.com
Nilus LeClecrc Loom for Sale
By rain@rmi.net
```

Date: Wed, 02 Aug 2000 08:21:29-0400
From: Janet Stollnitz [jstoll@cpcug.org](mailto:jstoll@cpcug.org)
Subject: Macomber Texsolv Tie-up
I'm still in the process of switching from using the metal hooks to Texsolv cords and pegs for the tie-up on my portable Macomber. Maneuvering the cords and pegs between the lamms and treadles while lying on the floor had discouraged me from changing the all the ties. The loom (this is the 24 ", 8 -shaft portable) is now sitting on a table and I can sit in a chair to loop the Texsolv over the lamms, line up the pegs and mark the cords. Of course, I will still need to get down on the floor from time to time to change the tie-ups, but if all goes well, I will not need to do a lot of fiddling around as each cord will be marked with the correct placement for the peg. A skyhook to raise and lower the loom when the tie-up needs changing would be great! <vbg>

Janet
Janet Stollnitz
Silver Spring, MD

Date: Wed, 02 Aug 2000 08:40:33 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: Macomber Texsolv Tie-up
>A skyhook to raise and lower the loom when the tie-up needs >changing would be great! <vbg>

## WeaveTech Archive 0008

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Ooooooooo. I'd like one for my Macomber, too. It's a 32", 12-shaft. D'ya
think we can get skyhooks strong enough for that? I switched to Texsolv
tieups about }18\mathrm{ mos ago. This eliminates the dreaded falling hooks, but
doesn't do a thing for the problem of crawling around on the floor.
I'll be first in line for a loom that's sold w/ its own skyhook.
Ruth
rsblau@cpcug.org
Arlington, VA USA
```

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Date: Wed, 02 Aug 2000 09:14:29 -0400
From: Eileen Driscoll [efd2@cornell.edu](mailto:efd2@cornell.edu)
Subject:
Has anyone tried using a handspun singles yarn as weft? At Convergence I spoke to the woman at New World Textiles and she showed me some fabric with handspun singles cotton weft and I got to thinking about scarves with a handspun singles wool/angora blend. I am thinking of using a multicolored weft yarn with black cotton warp in a tabby or simple twill. Would I have any problems with the yarn not wearing well?
Thanks. Eileen in Ithaca

Date: Wed, 2 Aug 2000 08:21:06 -0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
Subject: RE: Macomber Texsolv Tie-up
What a wonderful idea, crawling around under the loom ten years ago didn't bother me, but I find I don't crawl as well anymore, think maybe I need to switch what cords/chains are on the Leclerc to something easier to change! Wonder if borrowing a couple of my mechanic brother's hydraulic jacks would work? VBG
Aging Alice in Mo!

Date: Wed, 2 Aug 2000 07:13:08-0700 (PDT)
From: Carrie Brezine [soloviova@earthlink.net](mailto:soloviova@earthlink.net)
Subject: handspun singles
Ijust finished a sample piece with handspun cotton singles for warp and weft. I sized the yarn before I started, but I didn't have any problems. In my opinion, whether or not the weft will wear well will have a lot to do with the spinning. If the spinning is reasonable, you shouldn't have any problem weaving your handspun as weft.
carrie in portland OR
>From: Eileen Driscoll [efd2@cornell.edu](mailto:efd2@cornell.edu)
$>$
>Has anyone tried using a handspun singles yarn as weft? At Convergence I >spoke to the woman at New World Textiles and she showed me some fabric with
>handspun singles cotton weft and I got to thinking about scarves with a >handspun singles wool/angora blend. I am thinking of using a multicolored

## WeaveTech Archive 0008

>weft yarn with black cotton warp in a tabby or simple twill. Would I have >any problems with the yarn not wearing well?
>Thanks.
>Eileen in Ithaca
$>$
--------------------------------

Date: Wed, 2 Aug 2000 09:45:33-0500
From: "Su Butler" [apbutler@ync.net](mailto:apbutler@ync.net) Subject: Re:

HI Eileen...
> Has anyone tried using a handspun singles yarn as weft
Handspun will perform nicely as weft....
>Would I have any problems with the yarn not wearing well?
This will depend on the grist of the handspun, the structure in which it is woven, the use and the care of the item. Long floats do not wear as well as short. You should be able to successfully use your handspun as a weft yarn.

Su Butler :-) apbutler@ync.net
"The happiness of a man in this life does not consist in the absence, but in the mastery, of his passions." - Alfred, Lord Tennyson

Date: Wed, 2 Aug 2000 07:46:37-0700
From: "Darlene Mulholland" [darmul@netbistro.com](mailto:darmul@netbistro.com)
Subject: RE: Macomber Texsolv Tie-up
I don't know if this will work on a Macomber but I've got a 36" Louett = Spring loom and while I love to weave on it - it is literally a pain in = the neck to tie up. The way this loom is configured you must do the tie $=$ up from the front [leaning over the treadles] rather than even being $=$ able to tie up from the back. It is a countermarche loom so has lots of $=$ tie ups to do. I decided to try lifting the loom up by placing each = side on a Rubbermaid kitchen stool [the cheap 10" high ones]. By = centering the stool under the castle on each side of the loom [obviously $=$ use the widest part of the stool along the edge of the loom] it sits up = on these securely. That said I wouldn't leave the loom up on the stools = with small children around since if you pulled on it you might tip it = over. As this loom is 36 " I can lift each side alone and kick the stool $=$ under. You can now sit on the floor at the front of the loom in a lot $=$ more comfort to do the tie up. A less wide loom would need to be lifted = from each side at the same time due to the leverage but it sure is worth $=$ the effort to make tie -ups much easier.

Not as comfortable as a sky hook but might be just a bit easier to = achieve. <G>

Darlene Mulholland
darmul@netbistro.com
Artisan Knitting Machine Dealer
www.pgmoneysaver.bc.ca/weaving/=20

Date: Wed, 2 Aug 2000 09:52:53-0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)

# WeaveTech Archive 0008 

Subject: RE: Macomber Texsolv Tie-up
Wonder if when I want to change the tie up on my Leclerc counterbalanced i could borrow a couple of our library kiksteps, small stools, metal with casters that sink when a weight is on them. Maybe could borrow the ones in Tech services as when I am not here no one else is, HMMMMMMM! Must think about this? Or may I should just get another of the little wooden step things intended for kids, but gives big me just enough height to reach the top shelves in the kitchen. Thought provoking ideas!
Alice in Mo
> -----Original Message-----
$>$
---------------------------------

Date: Wed, 02 Aug 2000 11:14:32 -0700
From: Barbara Nathans [bnathans@mindspring.com](mailto:bnathans@mindspring.com)
Subject: Re: Digest for weavetech@topica.com, issue 333
Jane wrote:
>Given the tediousness of the drafting process, I decided to write a $>c o m p u t e r$ program to help me translate my designs into drafts. It is now >available as a web based program that you can run in a web browser at >http://softweave.com/html/mwdwDrafter.html.
$>$
>A quick way to try out the program would be to enter a three block >checkerboard double weave pattern with solid face colors set in a mid tone $>$ frame, the 3 face weaves might be:
$>$
$>\quad 1=\mathrm{D}:$ dark
$>\quad 2=$ L:light
> 3 = D:light
$>$
>The row/block weave assignments for a 3 tone 9 square framed checkerboard >would be:

| $>$ |  |  |  |
| :--- | :--- | :--- | :--- |
| $>$ | 3 | 3 | 3 |
| $>$ | 1 | 2 | 3 |
| $>$ | 2 | 1 | 3 |
| $>$ | 1 | 2 | 3 |
| $>$ | 3 | 3 | 3 |

> The resulting draft would require a different threading (threaded in 321 >2 3 block order) to see the checkerboard in a weave program. However, I've >gotten used to weaving blind and only seeing the pattern again as it >appears in the cloth.

How do I go about saving this program on my hard disk for future use --or study..

Will saving it as a file work?
Barbara Nathans Bellport, Long Island, New York

Date: Wed, 2 Aug 2000 10:02:11-0600
From: "Lynne or Steve Ranes" [rain@rmi.net](mailto:rain@rmi.net)
Subject: Nilus LeClecrc Loom for Sale
4 Harness 45" Nilus LeClerc with fly shuttle
2 end feed shuttles \& lots of Perns

# WeaveTech Archive 0008 

```
5 reeds 5,8,10,12, & 15 dent
$900 Southern Colorado...no shipping
contact Joanne at joannecaldwell@juno.com
End of weavetech@topica.com digest, issue 334
From list-errors.700002588.0.701753111.004@boing.topica.com Mon Aug 7 10:19:34 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id KAA00671 for <ralph@localhost>; Mon, 7 Aug 2000 10:19:29 -0700
Received: from bas
    by fetchmail-4.5.8 IMAP
    for <ralph/localhost> (single-drop); Mon, 07 Aug 2000 10:19:30 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
    by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA01560
    for <ralph@baskerville.cs.arizona.edu>; Thu, 3 Aug 2000 03:32:18 -0700 (MST)
Received: from outmta003.topica.com (outmta.topica.com [206.132.75.200])
    by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA16332
    for <ralph@cs.arizona.edu>; Thu, 3 Aug 2000 03:32:16 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 335
Date: Thu, 03 Aug 2000 03:31:24 -0700
Message-ID: <0.0.2005003844-951758591-965298684@topica.com>
X-Topica-Loop: 0
Status: R0
-- Topica Digest --
    What Sells These Days???
    By cronewest@thegrid.net
    Re: Macomber Hooks
    By Weavaway@aol.com
    Re: What Sells These Days???
    By diamor@saltspring.com
    Re: Macomber Hooks
    By Jayblandin@aol.com
    Re: What Sells These Days???
    By archfarm@nas.com
    Re: mwdwDrafter question
    By janee@softweave.com
    Loom for sale
    By bolt3@marshall.edu
    Re: What Sells These Days???
    By Annweave@aol.com
    Re: What Sells These Days???
    By diamor@saltspring.com
```

Date: Wed, 2 Aug 2000 10:37:35-0700
From: Sally Knight [cronewest@thegrid.net](mailto:cronewest@thegrid.net)
Subject: What Sells These Days???

## WeaveTech Archive 0008

Due in no small part to having declared (succesfully, so far) the Year 2000 to be the Year of the UnFinished prOject(s) [UFOs], I sent in my application to be part of this year's county-wide open studios tour in October. The good news is that I've passed inspection and am "in". The midling news is that I've got to weave my brains out between now and then to have plenty of work to show and sell, in case someone actually shows up and (heaven forbid!) wants to buy.

The question is: weave what? What is selling these days and at what prices? I'm interested mostly in relatively small, less expensive items for this first year. I've already wound a whole bunch of warps for rayon chenille scarves. (I plan also to make a whole bunch of appliqued miniature landscapes, which are more closly related to the quilting that I also do.)

What advise and guidance do you all have to share with me??
Sally
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Sally G. Knight in Los Osos (on the Central Coast of California).
UFO most recently completed: purple striped coat, which may be further remade one day, but not today.

Total UFOs completed in 2000: 14.
[cronewest@thegrid.net](mailto:cronewest@thegrid.net)
$++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++$

Date: Wed, 2 Aug 2000 14:41:50 EDT
From: Weavaway@aol.com
Subject: Re: Macomber Hooks
At times I think I must be the only person in the world who has never had a problem with Macomber treadle hooks. I wonder if it is because that when I bought my first one (yes, it was in a barn and was 40") I didn't own a bench, so used an a kitchen stool as a seat for my first few projects. I am short ( or in the politically correct expression of the day, vertically challenged.) I had to stretch to reach the treadles, so it was slow, steady pressure, not hard and fast as I have seen many weavers do when weaving. And I seem to wind up weaving just as fast or faster than other weavers. I have taken my 24 " one to workshops, and some of the people in the round robin bounced the hooks off, but I never have on any of the three Macombers I have owned. Try increasing pressure instead of slamming the treadle down, and see if that doesn't work better.
-Nancy in muggy Pennsylvania

Date: Wed, 2 Aug 2000 12:42:47-0700
From: "Diane Mortensen" [diamor@saltspring.com](mailto:diamor@saltspring.com)
Subject: Re: What Sells These Days???
Sally -
You asked what might be the best sellers when your studio takes part in an open studio tour.

Well, my studio is open most days from May to October as part of the Salt

## WeaveTech Archive 0008

Spring Island Studio Tour. I get from just a few people a day to probably fifty or so some days. I find that to have a range of items is probably the best. The price range in my studio is from $\$ 6.00$ up to over $\$ 800$.

A few people will be looking at large items such as blankets, throws, shawls or clothing or one-of-a-kind exhibition-type pieces. Others, especially if they know what kind of work you will have available ahead of time may come with a plan in mind. I have quite a variety of items but have a large display of 24 colours of placemats, runners and tea cosies. These allow people to purchase as few as a single placemat for around \$13-14 up to \$60 - \$70 for a runner or set or several hundred dollars for a full complement of items to go with their china.

For spur of the moment items I have scarves which sell well to a slightly younger group than those items above. It is not unusual for people to want to buy items which are presently on the loom, particularly if they have had a chance to find out what is involved in the weaving process. Finally, for those who just want a small token of their visit I have a display of what I call my Orphans and Seconds. These are items with minor flaws, too short, etc. or the end of an edition with say only one or two mats left over after the stores have received their orders. These are sold at $1 / 2$ to $2 / 3$ rds of the regular retail price.

My experience has been that approximately one-half of the people who come will buy. This is a little better than what most of the studios on the tour have found. I put this down to the range of items as well as the display. I also have a portfolio book with resume, photographs of custom work, etc. which the men usually gravitate to while the women look around.

It hasn't hurt either that each and every guest is greeted at their car by a golden retriever with a floppy stuffed bunny in his mouth who leads them in. They usually arrive at my studio door with big grins on their faces, and a pretty relaxed attitude.

Have fun. It has been a really positive experience for me and I have met some wonderful people from around the world and had the opportunity to do some exciting custom work.

Diane
Diane Mortensen
Salt Spring Island, B.C.
diamor@saltspring.com
http://www.islandweaver.com

Date: Wed, 2 Aug 2000 16:57:00 EDT
From: Jayblandin@aol.com
Subject: Re: Macomber Hooks
I do not like to be a "me too", but I firmly believe that this is the proper way to weave. All this slam bang has to be bad on the loom. I have one 40 inch Macomber that I have been weaving on since the early 70's and a portable 24" that I bought in the mid 70's and have had very little trouble with the hooks falling off. If I do, then I take the time to see what is out of line, correct it and then no more trouble. I have seen other people weave on a Macomber and slam the treadles down and beat the $h--$ out of the beater and the hooks are flying. I have also never had problems breaking the warps on the edges. I believe that comes from drawing in too much. I have never had trouble with parts working loose either. I make sure that it sets level and that if I am working on a rug or on the grass outside that the loom also sets

## WeaveTech Archive 0008

on boards or plywood. I want my loom to last and to do the work that it was designed for. I have heard of others having trouble with the Macomber and just never understood the big problem. I like the job that it does and am not ready to retire it. If I sound smug, I do not feel smug.

Jackie from NH
$\qquad$

Date: Wed, 02 Aug 2000 14:52:20-0700
From: archfarm@nas.com
Subject: Re: What Sells These Days???
Diane Mortensen wrote:
$>$.
$>$ Have fun. It has been a really positive experience for me and I have met > some wonderful people from around the world and had the opportunity to do > some exciting custom work.

Diane, could you elaborate on the custom work? How do you:
Solicit custom work
Contract for it
Charge for it
Thanks,
Myra
>
$\qquad$

Date: Wed, 2 Aug 2000 20:04:20-0400
From: Jane Eisenstein [janee@softweave.com](mailto:janee@softweave.com)
Subject: Re: mwdwDrafter question
>Jane wrote:
$>$
>>Given the tediousness of the drafting process, I decided to write a >>computer program to help me translate my designs into drafts. It is now >>available as a web based program that you can run in a web browser at >>http://softweave.com/html/mwdwDrafter.html.
>>
$>$
>How do I go about saving this program on my hard disk for future use --or >study..
>
$>$ Will saving it as a file work?
>Barbara Nathans Bellport, Long Island, New York
You can't save the actual program to your hard disk, it only runs on the softweave.com web site. However, you can save your work to your hard disk. Some of the pages have a "Save Changes" button that will take the information you've entered and save it temporarily in the browser. After you use the "Save Changes" button, you can use your browser's "Save As..." command (in the File menu) to save the page as a html file on your hard disk. When you want to resume working, just open the saved html file in your web browser and start working where you left off.

I've added some explanation about this to the pages that have "Save Changes" buttons. Thanks for the question.

Jane

# WeaveTech Archive 0008 

Jane Eisenstein janee@softweave.com http://www.softweave.com/

Date: Wed, 02 Aug 2000 22:55:43 -0400
From: C Bolt [bolt3@marshall.edu](mailto:bolt3@marshall.edu)
Subject: Loom for sale
"Nilus" Leclerc 45" 4 harness 6 treadle loom. Rachet front brake, friction
back brake, 12 dent reed, 2 lease sticks, rag shuttles, 1 ski shuttle. $\$ 800$.
Bill Meadows, 2936 Washington Blvd., Huntington, WV. 304-525-1595.
Free
delivery available - reasonable distance.
$\qquad$

Date: Thu, 3 Aug 2000 00:13:04 EDT
From: Annweave@aol.com
Subject: Re: What Sells These Days???
I have also found that placemats sell (and I hate weaving them!!). Plus in New Mexico I have had success with shawls. Table runners sell. Also vests do. Avoid clothing that people have to try on by putting over their heads in private dressing rooms. When I was in our studio tour I found that people like to see me work at my AVL and explain how it works. I live in a scientific town (Los Alamos) so all the high tech types love my computerized loom. But I do find that if I demonstrate too much I do not have as many sales. Ann
--------------------------------
Date: Wed, 2 Aug 2000 21:43:18-0700
From: "Diane Mortensen" [diamor@saltspring.com](mailto:diamor@saltspring.com)
Subject: Re: What Sells These Days???
Myra asked: Diane, could you elaborate on the custom work? How do you:
Solicit custom work
Contract for it
Charge for it
Myra -
The custom work I do comes from several sources: my web site, referrals from happy clients, and visitors who come to my studio. I have examples of the range of work I do as well as my resume in a portfolio for casual visitors to look over. I happily explain the weaving process and any work I'm presently working on when people visit the studio. This lets them think about the possibilities of having custom work done for them.

When someone enquires about having something woven, say for example upholstery or clothing fabric, I get the details about length, qualities, design ideas, function, etc. Then I prepare a formal proposal with several designs and/or show them similar fabrics and point out the differences. Usually I give them three alternatives. With each I give a price and a delivery date. In that proposal letter I lay out the details about how I wish to be paid and the process involved. My pricing has a +/- $10 \%$ built in to allow for unforeseen problems.

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When the client has chosen the design or we have worked through ideas to the final design, I ask for a $1 / 3$ payment to cover materials and ensure their committment. When work begins (i.e. the loom is being warped) I request an additional third. The final third with any taxes is due when they pick up or are shipped the product. On small projects (under \$250) I usually go for just two payments (beginning and end).

Pricing is based on a system I've developed to take in such factors as design time, loom set up, weaving, finishing, and studio overhead as well as a margin for profit. Sometimes I'm able to work other products for selling in the studio into the warp if it is something I'm excited about.

Some of the projects I've been working on this summer or are awating their time on the loom include: the spider web design (which many of you helped me with), two sets of 10 handtowels, a supplementary warp chenille shawl, cotton chenille cushions, a series of alpaca blankets and a large set of rustic linen/cotton table mats. The clients are spread out from New York to Arizona to Saskatchewan as well as here on Salt Spring. The use of a scanner and digital camera have made long-distance custom work fairly simple.

By the way, I prepared about six prototypes for the spider web client, including quilting, weaving, devore, impressing, and stitchery. My favourite was a metallic variegated -stitched one on black velveteen. I don't know which the client has chosen yet.

Diane

Diane Mortensen
Salt Spring Island, B.C.
diamor@saltspring.com
http://www.islandweaver.com

End of weavetech@topica.com digest, issue 335
From list-errors.700002588.0.701753111.004@boing.topica.com Mon Aug 7 10:21:31 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id KAA00692 for [ralph@localhost](mailto:ralph@localhost); Mon, 7 Aug 2000 10:21:27-0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Mon, 07 Aug 2000 10:21:28 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA10824
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Fri, 4 Aug 2000 03:32:22-0700 (MST)
Received: from outmta010.topica.com (outmta010.topica.com [206.132.75.222]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA02200
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Fri, 4 Aug 2000 03:32:15 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 336
Date: Fri, 04 Aug 2000 03:31:30 -0700
Message-ID: [0.0.1342688866-951758591-965385090@topica.com](mailto:0.0.1342688866-951758591-965385090@topica.com)
X-Topica-Loop: 0
Status: R0
-- Topica Digest --
Re: Handwovens for sale By wheat@wheatcarr.com

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Re: Macomber Hooks
By Sfsaulson@aol.com
Re: What Sells These Days???
By arachne@humboldt1.com
New Webpage
By rsblau@cpcug.org
Totally Off Topic
By cronewest@thegrid.net
Re: Totally Off Topic
By Sgorao@aol.com
Re: What Sells These Days???
By Annweave@aol.com
Re: What Sells These Days???
By cronewest@thegrid.net

Date: Thu, 03 Aug 2000 07:35:57 -0400
From: Wheat Carr [wheat@wheatcarr.com](mailto:wheat@wheatcarr.com)
Subject: Re: Handwovens for sale
>Contact me at efd2@cornell.edu if you are interested.
$>$

Hi Eileen,
Please offer the handwovens to the "next person" - some unexpectedly large bills in Wednesday's mail mean my free cash is now imprisoned elsewhere <g>

Sorry for any inconvenience.
Thanks so much.
Wheat
Wheat Carr
mailto:wheat@craftwolf.com
Carroll County MD

Date: Thu, 3 Aug 2000 09:00:40 EDT
From: Sfsaulson@aol.com
Subject: Re: Macomber Hooks
Dear Jay,
In discussing your Macomber, you say that if a hook falls off, you "take the time to see what is out of line, and correct it." Could you please spell out in more detail what you look at and how you go about correcting it.
Thanks,
Sarah Saulson

Date: Thu, 3 Aug 2000 09:25:18 -0700
From: Terri Tinkham [arachne@humboldt1.com](mailto:arachne@humboldt1.com)
Subject: Re: What Sells These Days???

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This June, we participated for the first time in an artists "Open Studio Tour" sponsored by our local arts organization. From our poing of view, it was very successful. To attract people in the first place, we advertised that there would be demonstrations of spinning and weaving plus refreshments. Once there, they were very happy to spend money on small ticket items. The best sellers were: cards with handwoven fabric under die-cut cats (what else!) in the range of $\$ 4$ to $\$ 5$, little "purselets" with some beaded finishing on the fringes (\$15-\$20), dishtowels (\$15-\$20), skeins of hand dyed handspun yarns, handmade books with handwoven silk used as book cloth (\$15-\$35) and little inkle loom woven bracelets (\$10) (kids are great at getting adults to buy this kind of thing). We did sellseveral scarves ( $\$ 40-60$ ) but the bulk of the sales were the little things. And, yes, have a wide variety!

We had the sales area in a separate room, away from the demonstrations so that people could contemplate without the distractions. This is more inportant than you might think. If something is going on, they will put down what they were admiring to watch.

It is good to have (if possible) more than one fiber artist, not only for variety, but to help with the work. There were three of us; one to primarily demonstrate the AVL, one to primarily spin, and another to "float"--to answer questions, guide them gently to the sales area, keep the tea water filled this type of stuff.

Since this was in the early summer, we anticipated that sales would not be very high, but what we did was ask people sign our guest book with the promise of another "Open Studio" in early December.
>From talking to other artists who participated in this venture (over one hundred), we had a very high visitor count and the comments were incredibly favorable. I think it was because we stressed the "welcome and see what we do" stuff, and the sales just happened because they were having a good time. But, when they return in December, they will spend money.

Date: Thu, 03 Aug 2000 13:29:59 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: New Webpage
The nonprofit fiber school/supply store where $I$ help out has a new webpage. Pay us a visit at
[http:www.springwaterfiber.org](http:www.springwaterfiber.org)
and see what we're all about. All our classes are listed, and you can download registration forms from the site. You can also see pix of the hand-dyed yarns (dyed by volunteers) and other stuff we sell in the shop and pix from our show last spring.

Note that WeaveTech's own Laura Fry will be teaching at Springwater on Nov. 18 \& 19. This is a rare opportunity to catch Canadian west-coaster Laura on the US east coast, and there's still room in that class if you're interested.

Ruth
rsblau@cpcug.org
Arlington, VA USA

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Date: Thu, 3 Aug 2000 10:58:57-0700
From: Sally Knight [cronewest@thegrid.net](mailto:cronewest@thegrid.net)
Subject: Totally Off Topic
Weavetech co-admistrator Ruth Blau will certainly yell at me for this totally off-topic message, but I believe a public HAPPY BIRTHDAY is due Ruth today! She and Amy work hard for all of us, so please join me in the traditional song:

Happy bird-day two ewes, Happy bird-day two ewes, Happy bird-day Dear Rooo-oooth, Happy bird-day two ewes.

Okay, I'll be good now. I promise.
Sally
+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Sally G. Knight in Los Osos (on the Central Coast of California).
UFO most recently completed: purple striped coat, which may be further remade one day, but not today.

Total UFOs completed in 2000: 14.
[cronewest@thegrid.net](mailto:cronewest@thegrid.net)


Date: Thu, 3 Aug 2000 16:09:13 EDT
From: Sgorao@aol.com
Subject: Re: Totally Off Topic
In a message dated 8/3/00 1:54:19 PM Eastern Daylight Time, cronewest@thegrid.net writes:

To Ruth:
> Happy bird-day two ewes,
> Happy bird-day two ewes,
> Happy bird-day Dear Rooo-oooth,
$>$ Happy bird-day two ewes.
>
Sandi

Date: Thu, 3 Aug 2000 23:19:12 EDT
From: Annweave@aol.com
Subject: Re: What Sells These Days???
An additional response to my earlier response. Definitely have a helper--preferably someone who knows weaving. If you are demonstrating weaving, you want someone knowledgeable to help with what you're selling. I (and others on our studio tour) found that while husbands are very helpful, they are not always the best to help with the studio tour. Mine did a great job of standing outside with our Scottish terrier and greeting people (and yes, my dog(s) was a great draw!! She'd roll over on her back for people to rub her tummy. And my older dog before he died would bring a toy into my studio--for people to play with him.) Also I sold inkle bookmarks for $\$ 3.00$

## WeaveTech Archive 0008

and sold a lot of them usually--other small items are good also. Ann

Date: Thu, 3 Aug 2000 23:52:55-0700
From: Sally Knight [cronewest@thegrid.net](mailto:cronewest@thegrid.net)
Subject: Re: What Sells These Days???
At 8:19 PM -0700 8/3/00, Annweave@aol.com wrote:
$>$ An additional response to my earlier response. ... I
$>$ (and others on our studio tour) found that while husbands are very helpful, >they are not always the best to help with the studio tour.

Good point. I think mine will make a good security guard, cookie-passer-outer, and cashier. But, it would be even better to have a weaver on the premises other than me.

Thank you for your input. I'm finding all the comments I am getting to be very useful. I'm all ears. Or, in this case, eyes.

Cheers,
Sally
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Sally G. Knight in Los Osos (on the Central Coast of California).
UFO most recently completed: purple striped coat, which may be further remade one day, but not today.

Total UFOs completed in 2000: 14.
[cronewest@thegrid.net](mailto:cronewest@thegrid.net)
$++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++$

End of weavetech@topica.com digest, issue 336
From list-errors.700002588.0.701753111.004@boing.topica.com Mon Aug 7 10:21:50 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
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8.7.3) with ESMTP id KAA00710 for [ralph@localhost](mailto:ralph@localhost); Mon, 7 Aug 2000 10:21:47-0700

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by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA02952
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Sat, 5 Aug 2000 03:33:37-0700 (MST)
Received: from outmta010.topica.com (outmta010.topica.com [206.132.75.222]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA13387
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Sat, 5 Aug 2000 03:32:41 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 337
Date: Sat, 05 Aug 2000 03:31:33 -0700
Message-ID: [0.0.2089364385-951758591-965471493@topica.com](mailto:0.0.2089364385-951758591-965471493@topica.com)
X-Topica-Loop: 0
Status: RO
-- Topica Digest --
Sales
By ingrid@fiberworks-pcw.com

# WeaveTech Archive 0008 

Tips and Tricks<br>By apbutler@ync.net<br>W - NEWS Newsletters<br>By arwells@erols.com<br>"2001: A Space-Dyed Odyssey"<br>By arachne@humboldt1.com<br>Re: Digest for weavetech@topica.com, issue 335<br>By tnewman@midcoast.com.au

Date: Fri, 04 Aug 2000 09:51:57-0400
From: Ingrid Boesel [ingrid@fiberworks-pcw.com](mailto:ingrid@fiberworks-pcw.com)
Subject: Sales
Hi Sally:
My husband - being intimately involved in weaving via software route knows a lot about weaving, but does not weave. He also is not great at selling weaving, but does the money part very well. Writing out slips, doing Visa etc.
But he also can talk about and demonstrate how the AVL works. This is great as he really can show the tech stuff here. This keeps the guys out of the sales room, where the women congregate to buy.
The only thing worse for sales than a husband watching a woman trying on a scarf or a shawl is the best girlfriend watching a woman try on a hat. In this case, everyone stops buying and leaves, as two women roll on the floor laughing about how they look in the hat.

Have a full length mirror handy, even if you are just selling scarves.
People will try on scarves if the mirror is there.
Light the sales area really well. If it is dark, and nothing sparkles the area is dull, people think the goods are dull too.

I never offer refreshments as too many things have been ruined by spilled drinks or sticky hands, but I do offer a bowl of wrapped candy of good quality, not chocolates though.

Hope for great weather, but put a large mat, big enough for several people, on your porch, or in front of your door, to help keep the dirt out.

My sales were in late October with a studio tour. I invited a silver smith to share my space. This worked well as we both attracted a different audience. I had once invited a calligrapher, but our work did not mesh well.

Mostly I sold scarves, matching hats, some shawls, couch throws and a few vests.

Visa and MC are essential if you have articles over $\$ 20.00$.
Ingrid
Ingrid Boesel, the weaving half of Fiberworks PCW
Visit us at: http://www.fiberworks-pcw.com
Email: ingrid@fiberworks-pcw.com

Date: Fri, 4 Aug 2000 12:27:58 -0500
From: "Su Butler" [apbutler@ync.net](mailto:apbutler@ync.net)

## WeaveTech Archive 0008

Subject: Tips and Tricks
Hi all, apologies again if you receive this more than once.....
Many of you have sent your ideas for tips and tricks for weaving...and I
THANK YOU....but I would like to hear from more of you.......please don't assume because *you* know it, everyone else does too....I have received some very interesting ideas so far! Please share your ideas with the weaving world, email me privately please.........Thanks again!!

Su Butler :-) apbutler@ync.net
"The happiness of a man in this life does not consist in the absence, but in the mastery, of his passions." - Alfred, Lord Tennyson

Date: Fri, 04 Aug 2000 16:12:33-0700
From: Anne Wells [arwells@erols.com](mailto:arwells@erols.com)
Subject: W - NEWS Newsletters
I have another treasure that must leave my house -- which is terribly overloaded. Anyway, this is a set of NEWS (New England Weavers' Seminar) newsletters, from Fall 67 to Spring 83. It is quite a stack, but I do not know (and doubt) if it is complete. At any rate, there are lots of interesting pieces of weaving information, and a sample with every newsletter. One of the newsletters annouces the formation of the HGA and invites weavers to join. Interesting.

At any rate, I need to find a home for this and would prefer it to be a guild library. Please let me know if you are interested. I suspect that cost \& mailing would be about $\$ 15$, to give you an idea.
Thanks,
Anne
arwells@erols.com

Date: Fri, 4 Aug 2000 17:53:42 -0700
From: Terri Tinkham [arachne@humboldt1.com](mailto:arachne@humboldt1.com)
Subject: "2001: A Space-Dyed Odyssey"
"2001: A SPACE-DYED ODYSSEY" A one-of-a-kind calendar with handwoven, hand-dyed samples plus a fun story/spoof. Board the shuttle and see some "Out of this World" samples from an astroknot's viewpoint.

This year, our Fibernuts, Carolyn, Dorothy Terri and Vikki have gone beyond "spaced-out"! Not only are the majority of the samples handwoven, they are all hand-dyed in various techniques befitting the theme. You will find shibori, marbling (on handwoven silk, no less), ikat, and warp painting just to name a few. In addition, we recently acquired several "fantastic" fibers
at the Conference of Northern California Handweavers:
SolarActive, a color-changing, ultra violet thread;
Retroreflective, a new and bizarre fiber from France; merino wool and steel (!) and a spinning fiber called "hologram." Most of these will find their way into this year's stellar edition. And, to tempt you even further, Dorothy and Vikki have become so enamored with pop-ups, there will be several of these included.

Our calendars began as the typical swatch on a page with some text and graphics, but over the years they have evolved into something of a work of art. Every year they get more complicated and time-consuming (but lots of fun as creative ventures force us to stretch ourselves to try new things). They are not professionally printed or bound so they still retain that "home-grown" look, but definitely are "clever". 2001 marks our sixth

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edition. It must be love...
If you would like ordering information, receive a flyer, or be put on our mailing list for next years edition, email me privately:
arachne@humboldt1.com
Thanks!
Terri
------------------------------
Date: Sat, 5 Aug 2000 12:25:16 +1000
From: "Trudy Newman" [tnewman@midcoast.com.au](mailto:tnewman@midcoast.com.au)
Subject: Re: Digest for weavetech@topica.com, issue 335
I am enquiring on behalf of David Beckworth of Victoria, Australia, who has acquired an old Jacquard loom, and who is just in the process of threading up. He is having trouble getting any information about using the "monster" as his wife calls it, and would appreciate any help from other Jacquard weavers. He does have a correspondence course on J. weaving which is a start. His computer is not in action at the moment, so I can pass any infor. on to him.
with thanks
Trudy Newman
27 Allunga Ave PORT MACQUARIE NSW 2444
AUSTRALIA. Ph/fax:(02) 65822722
tnewman@midcoast.com.au
Mobile: 0427543127

End of weavetech@topica.com digest, issue 337
From list-errors.700002588.0.701753111.004@boing.topica.com Mon Aug 7 10:21:56 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
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8.7.3) with ESMTP id KAA00716 for [ralph@localhost](mailto:ralph@localhost); Mon, 7 Aug 2000 10:21:53-0700

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by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id XAA19596
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Sat, 5 Aug 2000 23:58:39-0700 (MST)
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for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Sat, 5 Aug 2000 23:58:37-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 338
Date: Sat, 05 Aug 2000 23:58:02-0700
Message-ID: [0.0.995189562-951758591-965545082@topica.com](mailto:0.0.995189562-951758591-965545082@topica.com)
X-Topica-Loop: 0
Status: R0
-- Topica Digest --
multi-weft double weave drafting
By janee@softweave.com
Little Looms
By jimleslie@elroynet.com

# WeaveTech Archive 0008 

Weaving in Irvine, California?<br>By a.kersten@mailbox.kun.nl<br>Re: Digest for weavetech@topica.com, issue 335<br>By carleton@mcn.org<br>string heddles<br>By gritz@hpnc.com<br>RE: string heddles<br>By judie@eatough.net<br>Re: Susan Lazear<br>By gabraham@netvision.net.il<br>Table loom available again<br>By apbutler@ync.net<br>Re: Susan Lazear<br>By jstoll@cpcug.org<br>Re: Susan Lazear<br>By teresaruch@msn.com

Date: Sat, 5 Aug 2000 07:35:52-0400
From: Jane Eisenstein [janee@softweave.com](mailto:janee@softweave.com)
Subject: multi-weft double weave drafting
So far, several people have found my multi-weft double weave drafting program http://softweave.com/html/mwdwDrafter.html too confusing to use. It does dive right into the process $I$ use to translate designs into weave drafts.

To help make that process a clearer, I've added an illustrated step by step description of the steps I used to translate a simple design into a draft. A link to this description is now on the program's first page.

Thanks for being interested enough to let me know about the problems you find, Jane

Jane Eisenstein janee@softweave.com http://www.softweave.com/

Date: Sat, 5 Aug 2000 10:16:25-0500
From: "jimleslie" [jimleslie@elroynet.com](mailto:jimleslie@elroynet.com)
Subject: Little Looms
You may remember I posted to the list a couple of months ago asking for input on our plans to build little table looms that fold for travel. The first three 4 harness, 12" weaving width looms have been built and already sold, but we are working on more and should have jpeg photos available for email by the first of the week. They are made of aspen with some walnut parts, have wire heddles, your choice of "big-eyed" heddles or regular twisted wire, stainless steel reeds, and have moved like hotcakes at $\$ 225$ ( $\$ 240$ with inserted eye heddles) plus actual UPS shipping. Email me if you'd like photos or have questions. These little guys would be perfect for workshops, classes, small projects, samples, and travel. Thanks for all your encouragement

## WeaveTech Archive 0008

and ideas.....
Leslie
$\qquad$

Date: Sat, 05 Aug 2000 17:33:07 +0200
From: Martens [a.kersten@mailbox.kun.nl](mailto:a.kersten@mailbox.kun.nl)
Subject: Weaving in Irvine, California?
Hi,
Spring and Summer 2001 I'll be in Irvine, California for a sabbatical.
I'm an experienced weaver from Holland and I would like to contact weavingclubs in Irvine or nearby. Are there any? Would it be possible to rent a loom for a few months?
Please, if you have any informtion, let me know.
Anneke Kersten
-------------------------------
Date: Sat, 5 Aug 2000 08:40:40-0700
From: carleton@mcn.org
Subject: Re: Digest for weavetech@topica.com, issue 335
$>$
$>$ Trudy Newman
>27 Allunga Ave PORT MACQUARIE NSW 2444
>AUSTRALIA. Ph/fax:(02) 65822722
>tnewman@midcoast.com.au
>Mobile: 0427543127
>Dear Ms. Newman,
As I have mentioned before on this list, the book "The Mechanism of Weaving"by Fox I have found a wonderful source of help. The list has it in a down loadable form but I have never done that so maybe someone on the list can explain how that is done.

Is this Jacquard a handloom or power? What sort of set is the comber board? Is there a harness tye up or is your friend trying to mount a head to a non matching loom? What about cards? Are they the old coarse index or new close index? English or American or Swiss?

Vincent Carleton, carleton@mcn.org
>T O P I C A The Email You Want. http://www.topica.com/t/16
>Newsletters, Tips and Discussions on Your Favorite Topics
--------------------------------
Date: Sat, 5 Aug 2000 12:45:35-0500
From: "Aaron and Carolyn Gritzmaker" [gritz@hpnc.com](mailto:gritz@hpnc.com)
Subject: string heddles
I'm going to be experimenting with my Macomber loom a bit and will need a lot of long-eyed heddles. I'm going to be making these with carpet warp. Is it a good idea to wax the string before I tie them into heddles or is this unnecessary? Thanks!
Carolyn Gritzmaker

Date: Sat, 5 Aug 2000 13:23:12-0600
From: "Judie Eatough" [judie@eatough.net](mailto:judie@eatough.net)

## WeaveTech Archive 0008

Subject: RE: string heddles
You might try buttonhole thread for string heddles. I have some from JimAhrens that are made from this thread. He also varnished the knots at the end.

Judie

Date: Sat, 5 Aug 2000 23:37:40 +0300
From: "Yehudit Abrahams" [gabraham@netvision.net.il](mailto:gabraham@netvision.net.il)
Subject: Re: Susan Lazear
Anyone know of her address or the pattern making and dress designing programs she uses?

Yehudit

Date: Sat, 5 Aug 2000 17:24:16-0500
From: "Su Butler" [apbutler@ync.net](mailto:apbutler@ync.net)
Subject: Table loom available again
HI all....the $16^{\prime \prime} 4$ S red oak table loom at a bargain price is once again available...original buyer backed out.....it is an old loom, needs a tiny bit of repair, instructions for repair included, but is usable as is.....side levers, probably a homemade deal, but heavy and sturdy, if not very pretty....and most importantly, functional....please respond privately if interested....

Su Butler :-) apbutler@ync.net
"The happiness of a man in this life does not consist in the absence, but in the mastery, of his passions." - Alfred, Lord Tennyson
$\qquad$

Date: Sat, 05 Aug 2000 19:14:48 -0400
From: Janet Stollnitz [jstoll@cpcug.org](mailto:jstoll@cpcug.org)
Subject: Re: Susan Lazear
At 02:45 PM 8/5/00 -0700, Yehudit wrote:
>Anyone know of her address or the pattern making and dress designing >programs she uses?

Susan Lazear is the owner of Cochenille Design Studio that a company that produces design software. Check out the Web site at <www. cochenille.com>

Janet
Janet Stollnitz
Silver Spring, MD

Date: Sat, 5 Aug 2000 17:53:01 -0700
From: "teresaruch" [teresaruch@email.msn.com](mailto:teresaruch@email.msn.com)
Subject: Re: Susan Lazear
I see that someone else mentioned Cochenille. You can see here webpage at cochenille.com or maybe cochenille@compuserve.com. She has developed two

## WeaveTech Archive 0008

programs. One called Garment Styler and the other in beta is Garment Design. I have tested it in beta and like it very much. hope this helped.
Teresa----- Original Message -----
From: Yehudit Abrahams [gabraham@netvision.net.il](mailto:gabraham@netvision.net.il)
To: [weavetech@topica.com](mailto:weavetech@topica.com)
Sent: Saturday, August 05, 2000 2:45 PM
Subject: Re: Susan Lazear
> Anyone know of her address or the pattern making and dress designing
> programs she uses?
>
> Yehudit
$>$
$>$
$>$ T O P I C A The Email You Want. http://www.topica.com/t/16
> Newsletters, Tips and Discussions on Your Favorite Topics
$>$

End of weavetech@topica.com digest, issue 338
From list-errors.700002588.0.701753111.004@boing.topica.com Mon Aug 7 10:21:59 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id KAA00719 for [ralph@localhost](mailto:ralph@localhost); Mon, 7 Aug 2000 10:21:57-0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Mon, 07 Aug 2000 10:21:58 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5]) by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA28085 for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Sun, 6 Aug 2000 03:31:46-0700 (MST)
Received: from outmta015.topica.com (outmta015.topica.com [206.132.75.232]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA28075 for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Sun, 6 Aug 2000 03:31:31-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 339
Date: Sun, 06 Aug 2000 03:30:48 -0700
Message-ID: [0.0.1934240844-951758591-965557848@topica.com](mailto:0.0.1934240844-951758591-965557848@topica.com)
X-Topica-Loop: 0
Status: R0
-- Topica Digest --
Re: string heddles
By willgee@mindspring.com
Re: Susan Lazear By wheat@craftwolf.com

Date: Sun, 06 Aug 2000 00:03:31-0700
From: glen black [willgee@mindspring.com](mailto:willgee@mindspring.com)
Subject: Re: string heddles
Please,please,please don't waste all that effort in making string heddles of carpet warp. As a veteran of hundreds of heddles, I say use fine seine twine or other hard thread and do varnish the knots and you will have them to use for years. glen black
--

# WeaveTech Archive 0008 

Glen's Multifarious Page
http://sites.netscape.net/willgeewillgee/homepage
$\qquad$
Date: Sun, 06 Aug 2000 04:37:29-0400
From: Wheat Carr [wheat@craftwolf.com](mailto:wheat@craftwolf.com)
Subject: Re: Susan Lazear
At 14:45 8/5/2000-0700, you wrote:
$>$ Anyone know of her address or the pattern making and dress designing >programs she uses?
$>$
$>$
You can visit her web site at:
http://www.cochenille.com

End of weavetech@topica.com digest, issue 339
From list-errors.700002588.0.701753111.004@boing.topica.com Mon Aug 7 10:22:13 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id KAA00734 for [ralph@localhost](mailto:ralph@localhost); Mon, 7 Aug 2000 10:22:10 -0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Mon, 07 Aug 2000 10:22:10 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA01164
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Mon, 7 Aug 2000 03:31:49-0700 (MST)
Received: from outmta012.topica.com (outmta012.topica.com [206.132.75.229])
by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA08665
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Mon, 7 Aug 2000 03:31:42 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 340
Date: Mon, 07 Aug 2000 03:31:02 -0700
Message-ID: [0.0.527015974-951758591-965644262@topica.com](mailto:0.0.527015974-951758591-965644262@topica.com)
X-Topica-Loop: 0
Status: RO
-- Topica Digest --
Re: string heddles
By Kris.Bergstad@Valley.Net
Re: Susan Lazear
By bruciec@trib.com
Weaving in England
By jjcbjones@rcn.com
Re: Weaving in England By rsblau@cpcug.org

String Heddles?
By ingrid@fiberworks-pcw.com
Dictionary of Weaves, Part II ???
By yapeters@concentric.net

# WeaveTech Archive 0008 

string heddles
By gritz@hpnc.com
Finlandia loom
By Dottiday@aol.com
Re: Susan Lazear
By gabraham@netvision.net.il

Date: Sun, 06 Aug 2000 00:14:49 -0400
From: Kris Bergstad [Kris.Bergstad@Valley.Net](mailto:Kris.Bergstad@Valley.Net)
Subject: Re: string heddles
I agree that a fine seine twine for string heddles will be much better than carpet warp. I have used string heddles from Scandinavia for 20+ years--they're always made of fine seine twine (knots aren't varnished, though) and last for years.

## Kris in NH

>Please,please,please don't waste all that effort in making string >heddles of carpet warp. As a veteran of hundreds of heddles, I say use $>$ fine seine twine or other hard thread and do varnish the knots and you >will have them to use for years. glen black

Date: Sat, 05 Aug 2000 18:14:15-0600
From: Brucie [bruciec@trib.com](mailto:bruciec@trib.com)
Subject: Re: Susan Lazear
I know that I have been reprimanded for not editing the original message and am trying not to do this but snips are useful. The reason being that I (and I am sure many others) often do not receive the original message through some error on the part of the either gods. Therefor I really do believe that a relevant snip is useful.
>Anyone know of her address or the pattern making and dress designing >programs she uses?

For example I got this and have absolutely no idea to what it refers due to not having ever received the original post. If I am in the minority so be it.

Brucie

Date: Sun, 6-Aug-2000 15:43:07 GMT
From: Judy Jones [jjcbjones@rcn.com](mailto:jjcbjones@rcn.com)
Subject: Weaving in England
Hi all. Headed for England on Thurs. Wondered if there were any special weaving exhibits going on that I should see or what might be of interest to a weaver. Will be in London, the Cotswalds, and The Lake District. Have done the usual tourist things before. Will do some for my family but wanted to take advantage of any weaving places I should see while there.

# WeaveTech Archive 0008 

Date: Sun, 06 Aug 2000 12:48:53 - 0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: Weaving in England
> Will be in London, the Cotswalds, and The Lake
>District.
Since you've been there before, you've probably been to the Victoria \& Albert Museum in London--but just in case you haven't: don't miss their textile collection. It's worth a whole day or more of your time. Send the family off to do something else for that day. <ggg>

Ruth
rsblau@cpcug.org
Arlington, VA USA

Date: Sun, 06 Aug 2000 13:50:40-0400
From: Ingrid Boesel [ingrid@fiberworks-pcw.com](mailto:ingrid@fiberworks-pcw.com)
Subject: String Heddles?
Hi Carolyn:
Why not just buy the texsolv long eyed heddles. They are a reasonable cost, under $\$ 20$ for 100 I think. Saves a ton of time.
Ingrid
Ingrid Boesel, the weaving half of Fiberworks PCW
Visit us at: http://www.fiberworks-pcw.com
Email: ingrid@fiberworks-pcw.com

Date: Sun, 6 Aug 2000 14:14:27-0400
From: "Sue Peters" [yapeters@concentric.net](mailto:yapeters@concentric.net) Subject: Dictionary of Weaves, Part II ???

I have just looked at Posselt's Dictionary of Weaves Part I. Thanks Ralph for putting this on the net and making it so easy to copy to our PC's. This is a great way to review old books for information. Many us would not have had the opportunity to see these old books without your effort.

My question is, Is there a Part II of the Posselt's Dictionary of weaves? Posselt mentions in the preface of Part I that part I "will be followed by successively issued parts, covering all the weaves possible to be made up to Twenty-four Harness." Did he actually follow through and publish the subsequent parts? I am especially interested in the twenty-four harness weaves.

Sue Peters near the Saginaw Bay
[yapeters@concentric.net](mailto:yapeters@concentric.net)

Date: Sun, 6 Aug 2000 14:55:16-0500
From: "Aaron and Carolyn Gritzmaker" [gritz@hpnc.com](mailto:gritz@hpnc.com)
Subject: string heddles
Many thanks to everyone who replied to my question. I won't be using carpet warp, but a strong upholstery thread. (It's not that I'm too cheap to buy

## WeaveTech Archive 0008

the texsolve heddles, just "thrifty" for an experiment that might not work out.) Thanks!

Also, I am looking to buy a copy of Doramay Keasbey's PATTERN DEVICES FOR HANDWEAVERS. If anyone has a spare copy they'd like to sell, please contact me privately.

Carolyn Gritzmaker

Date: Sun, 6 Aug 2000 20:14:37 EDT
From: Dottiday@aol.com
Subject: Finlandia loom
The son of one of our guild members contacted me for assistance selling his=20 father's loom. The father, a very talented art instructor and weaver in the= $=20$
San Francisco Bay Area, is now unable to weave. I am not familiar with this= $=20$
loom and would appreciate any assistance from the list re:=20
pricing/desirability. Please respond privately. Thanks in advance for your= $=20$
help. Dotti Dottiday@aol.com
"The loom is a Finnish countermarch loom, 48" (120 cm), 12 harness, 100=20 heddles
(polyester?) per harness, with underslung beater, and with bench. It is=20 fairly massive,
made of birch, and put together with pegs. It was purchased about 1980 from=20 an outfit in New Jersey called "Finn Weave." It is listed on the few bits of= $=20$
literature that we have as a "Finlandia," by Varpapuu (by VP Production, or=20 Varpapuu, 76120 Pieks=E4m=E4ki, Finland). My dad purchased it for rug weavi= ng."
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Date: Mon, 7 Aug 2000 06:59:38 +0300
From: "Yehudit Abrahams" [gabraham@netvision.net.il](mailto:gabraham@netvision.net.il)
Subject: Re: Susan Lazear
Sorry Bruce for having been so "snip". Sometimes communicating with the list is like talking to family where most of the protocol is dropped for brevity.

I wanted to know a contact address for Susan Lazear because I pulled out an old Convergence schedule
to find out who was it at one time giving classes on pattern making for computers. I recently finished my
first year here in Tel Aviv at Shankar Textile Technology Institute in Pattern Making and Designing.
Everyone here at Shankar seem to know nothing about these small computer programs geared toward the cottage industry/home industry. They just use the very expensive elaborate programs for the larger textile industry. I know from my hand weaving experience that such things do exist.

And thank you all. I visited cochineal and it is just what I wanted and more.

I have another question. At the inside of a cone of cotton I purchased 4 years ago at was once called

## WeaveTech Archive 0008

"The Weavers' Place" in Baltimore it says I believe UKI as the distributor or manufacturer. I seem to recall their advertisements or maybe something like that but after browsing a bit through magazines I can't
find them. Anyone know about them... surfing taxes my nerves....this is much easier, if you don't
mind.
Thanks all of you,
and by the way, I really was disappointed not to have gone to Convergence mainly because I wouldn't be able to meet you all again.

Yehudit

End of weavetech@topica.com digest, issue 340
From list-errors.700002588.0.701753111.004@boing.topica.com Tue Aug 8 06:14:10 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id GAA02511 for [ralph@localhost](mailto:ralph@localhost); Tue, 8 Aug 2000 06:14:06-0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Tue, 08 Aug 2000 06:14:07 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA18698
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Tue, 8 Aug 2000 03:32:53 -0700 (MST)
Received: from outmta016.topica.com (outmta016.topica.com [206.132.75.233])
by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA25678
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Tue, 8 Aug 2000 03:32:37 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 341
Date: Tue, 08 Aug 2000 03:31:24 -0700
Message-ID: [0.0.95458884-212058698-965730684@topica.com](mailto:0.0.95458884-212058698-965730684@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
Re: Weaving In England
By Sfsaulson@aol.com
RE: Little Looms
By amurphy@cbcag.edu
Re: UKI Address
By sharlin@coollink.net
Re: Susan Lazear
By bruciec@trib.com
RE: The Weaver's Place/ UKI
By jjcbjones@rcn.com
Re: Finlandia Loom
By laurafry@netbistro.com
Reed needed
By apbutler@ync.net

# WeaveTech Archive 0008 

Re: Reed needed By rsblau@cpcug.org

Keasbey/Pattern Devices!!
By maidenspg@inetone.net
Re: Reed needed
By alcorn@pop.nwlink.com

Date: Mon, 7 Aug 2000 09:08:10 EDT
From: Sfsaulson@aol.com
Subject: Re: Weaving In England
A few years ago, when we were in the Cotswolds, we visited the old wool market town of Cirencester. An old building there has been converted into a public gallery and artists' studios. There was a very nice weaver whose studio was there, and a good show in the gallery, with some lovely, sophisticated fiber pieces.
Sarah Saulson
---------------------------------
Date: Mon, 7 Aug 2000 08:49:55-0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
Subject: RE: Little Looms
Do you plan on making any in 8 or more harnesses, as that would be what I would want, or can the four be turned into 8? Thanks.
alice IN MO amurphy@cbcag.edu
--------------------------------
Date: Mon, 7 Aug 2000 07:14:47-0700
From: Hinze/Wood [sharlin@coollink.net](mailto:sharlin@coollink.net)
Subject: Re: UKI Address
UKI: PO Box 1656 Hickory, NC 28603. Phone 704-322-6975 Fax 704-322-7881
Or in New York: 541 West 37 St. NY, 10018 Tel: 212-564-2000, FAX
212-694-7660
I got a sample card from the NC address a few years back. Hope this Helps. Sharon C. Hinze
Spokane, Washington 99203
---------------------------------
Date: Mon, 07 Aug 2000 08:32:26 -0600
From: Brucie [bruciec@trib.com](mailto:bruciec@trib.com)
Subject: Re: Susan Lazear
I need to apologize. In the case of this post there had been no previous posting. I have had problems before with posts arriving in the middle of a discussion and having no idea what was going on because I had never gotten the previous posts. That was not the case here as the subject line stated what it was about. I just thought that the old problem was re-occurring. Sorry to all.
Brucie

# WeaveTech Archive 0008 

Date: Mon, 7-Aug-2000 14:52:13 GMT
From: Judy Jones [jjcbjones@rcn.com](mailto:jjcbjones@rcn.com)
Subject: RE: The Weaver's Place/ UKI
Hi Yehudit,
The Weaver's Place has been bought by another person and is called Cloverhill Yarn Shop. You can reach them at 1-410-788-7262. You can also purchase yarns direct from UKI. The \# for UKI is 1-888-604-6975. I don't think you have to have a resale \# for UKI but maybe. You can ask. Good Luck.

Judy
Yehudit Abrahams wrote:
$>$
$>$
$>$ I have another question. At the inside of a cone of cotton I purchased
$>4$
> years ago at was once called
> "The Weavers' Place" in Baltimore it says I believe UKI as the
> distributor
$>$ or manufacturer.

```
> Anyone know about them...
```

$>$
$>$
> Yehudit
$>$
$>$
-------------------------------
Date: Mon, 07 Aug 2000 09:19:33-0700
From: Laura Fry [laurafry@netbistro.com](mailto:laurafry@netbistro.com)
Subject: Re: Finlandia Loom
While I can't give you specifics for the Finlandia, I do know about the Varpapuu Looms as my very first "bought" loom was a 4s table loom made by the Varpapuu Loom company of Finland.
In 1977, Doug and I travelled to Sweden to visit friends, then on to Kouvola, Finland where I took a two week course sponsored by Varpapuu. Doug left me there to return home with the dissassembled loom in his back pack. :)

I wove literally hundreds of placemats on that loom and it was a little workhorse.

One of the things we had to do in the course was take apart and assemble one of the big floor looms. It was a real lesson in how a loom could be built to be sturdy, yet easily come apart.

Laura Fry

Date: Mon, 7 Aug 2000 13:08:13 -0500
From: "Su Butler" [apbutler@ync.net](mailto:apbutler@ync.net)
Subject: Reed needed
HI All.....I have a student in need of a $4.5^{\prime \prime}$ high, $16 "$ wide, 8 dent reed for her Schacht table loom. She is ONLY interested in stainless steel - NO carbon steel reeds please. If you have such a reed to sell, please contact me privately....

And on the same note, - does anyone know where one can buy a 4.5" high

## WeaveTech Archive 0008

reed new? Seems the reed manufacturers are dwindling, and even local shops won't order a reed like this....any help appreciated, and please send privately so we don't clutter up the list with this...
Thanks in advance...
Su Butler :-) apbutler@ync.net
"The happiness of a man in this life does not consist in the absence, but in the mastery, of his passions." - Alfred, Lord Tennyson
$\qquad$
Date: Mon, 07 Aug 2000 14:46:38-0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: Reed needed
$>$ And on the same note, - does anyone know where one can buy a $4.5^{\prime \prime}$ high >reed new?

What about Steel Heddle? They advertise in Handwoven, and last I heard, they carried both carbon steel \& stainless steel.

## Ruth

```
rsblau@cpcug.org
```

Arlington, VA USA

--------------------------------
Date: Mon, 07 Aug 2000 11:10:32 -0400
From: Belle Thomas [maidenspg@inetone.net](mailto:maidenspg@inetone.net)
Subject: Keasbey/Pattern Devices!!
Carolyn Gritzmaker wrote:
> Also, I am looking to buy a copy of Doramay Keasbey's PATTERN DEVICES FOR
> HANDWEAVERS. If anyone has a spare copy they'd like to sell, please contact
> me privately.
I'd like to find a stray copy of this one too.
I've had it on my wish list on Bibliofind and
abebooks for eons, with no results.
Rumor has it that Doramay is revising this
one...has it gone to press yet? (I know you're out
there somewhere <GGG>)
Also looking for Harriet Tidballs "coverlet book".
Like Carolyn, please contact me privately if you
have a copy either book with which you'd be
willing to part.
Belle Thomas
Cedar Bluff, VA
maidenspg@paintlick.com

Date: Mon, 7 Aug 2000 13:57:41-0700
From: Alcorn [alcorn@pop.nwlink.com](mailto:alcorn@pop.nwlink.com)
Subject: Re: Reed needed
> And on the same note, - does anyone know where one can buy a $4.5^{\prime \prime}$ high

## WeaveTech Archive 0008

>reed new?
Either Steel Heddle Reed Co or Gowdy Reed Co. Their addresses are in the weaving magazines. I know SH will make any size reed you want.

Francie Alcorn

```
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End of weavetech@topica.com digest, issue 341
From list-errors.700002588.0.701753111.004@boing.topica.com Wed Aug 9 06:37:25 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id GAA03865 for <ralph@localhost>; Wed, 9 Aug 2000 06:37:22 -0700
Received: from bas
    by fetchmail-4.5.8 IMAP
    for <ralph/localhost> (single-drop); Wed, 09 Aug 2000 06:37:22 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
    by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA04926
    for <ralph@baskerville.cs.arizona.edu>; Wed, 9 Aug 2000 03:32:44 -0700 (MST)
Received: from outmta016.topica.com (outmta016.topica.com [206.132.75.233])
    by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA13418
    for <ralph@cs.arizona.edu>; Wed, 9 Aug 2000 03:32:37 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue }34
Date: Wed, 09 Aug 2000 03:31:31 -0700
Message-ID: <0.0.1020634965-212058698-965817091@topica.com>
X-Topica-Loop: 0
Status: R
-- Topica Digest --
    Posselt's Dictionary of Weaves
    By ralph@cs.arizona.edu
    RE: Posselt's Dictionary of Weaves
    By amurphy@cbcag.edu
    Re: Posselt's Dictionary of Weaves
    By luv2weave@ncol.net
    RE: Posselt's Dictionary of Weaves
    By amurphy@cbcag.edu
    Re: Posselt's Dictionary of Weaves
    By luv2weave@ncol.net
    RE: Posselt's Dictionary of Weaves
By amurphy@cbcag.edu
testing the G-D-G theory
By jimleslie@elroynet.com
G-D-G test
By jimleslie@elroynet.com
Date: Tue, 8 Aug 2000 11:31:23-0700
From: Ralph Griswold <ralph@cs.arizona.edu>
Subject: Posselt's Dictionary of Weaves
```


## WeaveTech Archive 0008

Several of you have asked about Part 2. I've checked various on-line catalog listings, and several have the annotation "no more published" after Part 1.

If anyone has different information, please let me know off-group.
Ralph
$\qquad$
Date: Tue, 8 Aug 2000 13:52:23-0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
Subject: RE: Posselt's Dictionary of Weaves
I agree, it seem no more were published. I checked the OCLC network, (now with over 50 million records!) and if that says as it did in a library of congress record, no more. Alas. We shall have to be content with part 1. Alice in MO

```
> If anyone has different information, please let me know off-group.
```

> Ralph
$>$
$>$ Start an Email List For Free at Topica. http://www.topica.com/register
Date: Tue, 8 Aug 2000 15:01:53-0400
From: "Johnetta Heil" [luv2weave@ncol.net](mailto:luv2weave@ncol.net)
Subject: Re: Posselt's Dictionary of Weaves
missed the site for part 1 could someone send it to me please???
hugs
Johnnie
----- Original Message -----
From: "Alice Murphy" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
To: [weavetech@topica.com](mailto:weavetech@topica.com)
Sent: Tuesday, August 08, 2000 2:52 PM
Subject: RE: Posselt's Dictionary of Weaves
> I agree, it seem no more were published. I checked the OCLC network, (now
$>$ with over 50 million records!) and if that says as it did in a library of
$>$ congress record, no more. Alas. We shall have to be content with part 1.
> Alice in MO
\gg If anyone has different information, please let me know off-group.
\gg
\gg Ralph
\gg
\gg
\gg Start an Email List For Free at Topica. http://www.topica.com/register
$>$
> T 0 P I C A The Email You Want. http://www.topica.com/t/16
> Newsletters, Tips and Discussions on Your Favorite Topics

Date: Tue, 8 Aug 2000 14:17:52 -0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)

## WeaveTech Archive 0008

Subject: RE: Posselt's Dictionary of Weaves
ok here is the website, has lots of goodies on it.
http://www.cs.arizona.edu/patterns/weaving/weavdocs.html
Have fun, you may shortly need a new printer ribbon!
Alice in MO

Date: Tue, 8 Aug 2000 15:38:21-0400
From: "Johnetta Heil" [luv2weave@ncol.net](mailto:luv2weave@ncol.net)
Subject: Re: Posselt's Dictionary of Weaves
Thanks Alice, I just got a new printer ribbon but as before I can't get the site open!! am going to nap this afternoon and get up at 3 a.m and get it opened!
LOL
Hugs
Johnnie
----- Original Message -----
From: "Alice Murphy" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
To: [weavetech@topica.com](mailto:weavetech@topica.com)
Sent: Tuesday, August 08, 2000 3:18 PM
Subject: RE: Posselt's Dictionary of Weaves
> ok here is the website, has lots of goodies on it.
> http://www.cs.arizona.edu/patterns/weaving/weavdocs.html
$>$
> Have fun, you may shortly need a new printer ribbon!
Alice in MO
$>$
$>$
> T O P I C A The Email You Want. http://www.topica.com/t/16
> Newsletters, Tips and Discussions on Your Favorite Topics

Date: Tue, 8 Aug 2000 16:00:44-0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
Subject: RE: Posselt's Dictionary of Weaves
I've had good luck first thing in the morning.

```
> -----Original Message-----
> From: Johnetta Heil [SMTP:luv2weave@ncol.net]
> Sent: Tuesday, August 08, 2000 2:34 PM
> To: weavetech@topica.com
> Subject: Re: Posselt's Dictionary of Weaves
>
>
```

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Date: Tue, 8 Aug 2000 17:23:15-0500
From: "jimleslie" [jimleslie@elroynet.com](mailto:jimleslie@elroynet.com)
Subject: testing the G-D-G theory
BlankThinking I may be one of the offenders, this is a test! Leslie

## WeaveTech Archive 0008

Date: Tue, 8 Aug 2000 17:23:55-0500
From: "jimleslie" [jimleslie@elroynet.com](mailto:jimleslie@elroynet.com) Subject: G-D-G test

This is a multi-part message in MIME format.
------=_NextPart_000_0113_01C0015D.6E6D0A40
Content-Type: multipart/alternative; boundary="----=_NextPart_001_0114_01C0015D.6E6D0A40"
------=_NextPart_001_0114_01C0015D.6E6D0A40
Content-Type: text/plain; charset="Windows-1252"
Content-Transfer-Encoding: 7bit
BlankHave I offended?
Leslie
------=_NextPart_001_0114_01C0015D.6E6D0A40
Content-Type: text/html;
charset="Windows-1252"
Content-Transfer-Encoding: quoted-printable
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"> <HTML><HEAD><TITLE>Blank</TITLE>
<META http-equiv=3DContent-Type content=3D"text/html; = charset=3Dwindows-1252"><BASE=20
href=3D"file://C:\Program Files $\backslash$ Common Files $\backslash$ Microsoft $=$ Shared\Stationery\">

<STYLE>BODY \{
MARGIN-TOP: 25px; FONT-SIZE: 10pt; MARGIN-LEFT: 25px; COLOR: \#000000; = FONT-FAMILY: Arial, Helvetica
\}
P.msoNormal \{

MARGIN-TOP: 0px; FONT-SIZE: 10pt; MARGIN-LEFT: 0px; COLOR: \#ffffcc; = FONT-FAMILY: Helvetica, "Times New Roman" \}
LI.msoNormal \{

MARGIN-TOP: 0px; FONT-SIZE: 10pt; MARGIN-LEFT: 0px; COLOR: \#ffffcc; = FONT-FAMILY: Helvetica, "Times New Roman" \}
</STYLE>
<META content=3D"MSHTML 5.50.4134.600" name=3DGENERATOR></HEAD>
<BODY bgColor=3D\#ffffff =
background=3Dcid:011201c00187\$57324960\$600439ce@texoma.net>
<DIV>Have I offended?</DIV>
<DIV>Leslie</DIV>
<P>\ </P></BODY></HTML>
------=_NextPart_001_0114_01C0015D.6E6D0A40--
------=_NextPart_000_0113_01C0015D.6E6D0A40
Content-Type: image/gif;
name="Blank Bkgrd.gif"
Content-Transfer-Encoding: base64
Content-ID: <011201c00187\$57324960\$600439ce@texoma.net>
R0lGODlhLQAtAID/AP////f39ywAAAAALQAtAEACcAxup8vtvxKQsFon6d02898pGkgiYoCm6sq2 7iqWcmz0smeXeA7uPJd5CYdD2g9oPF58ygqz+XhCG9JpJGmLYrPXGlfr/Yo/VW45e7amp2tou/lW xo/zX513z+Vt+1n/tiX2pxP4NUhy2FM4xtjIUQAAOw==

## WeaveTech Archive 0008

```
------=_NextPart_000_0113_01C0015D.6E6D0A40--
End of weavetech@topica.com digest, issue 342
From list-errors.700002588.0.701753111.004@boing.topica.com Thu Aug 10 06:25:50 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id GAA06257 for <ralph@localhost>; Thu, 10 Aug 2000 06:25:05 -0700
Received: from bas
    by fetchmail-4.5.8 IMAP
    for <ralph/localhost> (single-drop); Thu, 10 Aug 2000 06:25:47 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
    by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA16891
    for <ralph@baskerville.cs.arizona.edu>; Thu, 10 Aug 2000 03:33:04 -0700 (MST)
Received: from outmta011.topica.com (outmta011.topica.com [206.132.75.228])
        by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA00687
        for <ralph@cs.arizona.edu>; Thu, 10 Aug 2000 03:32:57 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 343
Date: Thu, 10 Aug 2000 03:31:22 -0700
Message-ID: <0.0.1245878353-212058698-965903482@topica.com>
X-Topica-Loop: 0
Status: R
-- Topica Digest --
    Doramay's book
    By rsblau@cpcug.org
    RE: Posselt's Dictionary of Weaves
    By wheat@wheatcarr.com
    Re: G-D-G test
    By wheat@craftwolf.com
    Re:what's selling
    By bnathans@mindspring.com
    Thanks Reed info
    By apbutler@ync.net
    RE: testing the G-D-G theory
By amurphy@cbcag.edu
Re: Digest for weavetech@topica.com, issue 342
By imwarped2@aol.com
Re: Digest for weavetech@topica.com, issue 342
By luv2weave@ncol.net
RE: Digest for weavetech@topica.com, issue 342
By amurphy@cbcag.edu
Date: Wed, 09 Aug 2000 08:01:17-0400
From: Ruth Blau <rsblau@cpcug.org>
Subject: Doramay's book
```


## WeaveTech Archive 0008

```
It may be gone by now, but someone is advertising "Pattern Devices for
Handweavers" on the housecleaning pages. Go to the pages, then click on
"Grandma's Attic." And may the quickest mouse win! <ggg>
Ruth
rsblau@cpcug.org
Arlington, VA USA
```

--------------------------------

Date: Wed, 09 Aug 2000 08:10:33 -0400
From: Wheat Carr [wheat@wheatcarr.com](mailto:wheat@wheatcarr.com)
Subject: RE: Posselt's Dictionary of Weaves
At 12:18 8/8/2000-0700, you wrote:
>ok here is the website, has lots of goodies on it. >http://www.cs.arizona.edu/patterns/weaving/weavdocs.html
$>$
$>$

Johnny, et al
For some reason I also could not access the info using the above URL but one useful trick that works here (and quite often elsewhere) is to delete a "word" at a time. In this case, I used
http://www.cs.arizona.edu/patterns/weaving/
(eliminating the /weavedocs.html) and then was able to select from that page a working link to
http://www.cs.arizona.edu/patterns/weaving/
Once you get there, you will also need to have copy of Adobe Reader (the free part of Adobe Acrobat) since the majority of the files are PDF (portable document format) And you will need to select the link to "Scanned Documents"
http://www.cs.arizona.edu/patterns/weaving/scanned.html
you will have to scroll down since docs seem to be alphabetical by author.
If you use dialup web access, it is also a good idea to download the entire document and then print while off line. I save mine and then copy to a CD or Zip disk - not as comfortable to thumb thru, but a heck of lot lighter when moving <g>

Hope this helps.
Wheat
Wheat Carr
mailto:wheat@craftwolf.com
Carroll County MD

Date: Wed, 09 Aug 2000 08:15:17 -0400
From: Wheat Carr [wheat@craftwolf.com](mailto:wheat@craftwolf.com)
Subject: Re: G-D-G test
At 15:26 8/8/2000 -0700, you wrote:

## WeaveTech Archive 0008

>>>>
Have I offended?
Leslie

T O P I C A The Email You Want.
<<<<
>>>>
Attachment Converted: "c:\eudora\attach\Blank Bkgrd.gif"
<<<<
Dear Leslie,
as you can see from the quote above, you are sending some form of formatted text which is including a "gif" as a background for your message.
Apparently you are using OutLook so you may want to visit: http://www.rootsweb.com/rootsweb/listowners/html-off.htm
and review the instructions on how to change your email options so as NOT to send formatted text or background graphics to the list.

Wheat

Date: Wed, 09 Aug 2000 09:18:47 -0700
From: Barbara Nathans [bnathans@mindspring.com](mailto:bnathans@mindspring.com)
Subject: Re:what's selling
Check out the Sept 2000 issue of House and Garden magazine for a longish article on hand woven fabrics, and some good looking textile advertisements as well.

From the article, it looks like plain weave, or other 2 shaft weaves are hot stuff......
Barbara Nathans Bellport, Long Island, New York
$\qquad$
Date: Wed, 9 Aug 2000 08:43:46 -0500
From: "Su Butler" [apbutler@ync.net](mailto:apbutler@ync.net)
Subject: Thanks Reed info
Thank you to all who responded with so much valuable information on where to purchase this particular sized reed........I sincerely appreciate each and every answer received and the time it took to do so!
Thank you all!!
Su Butler :-) apbutler@ync.net
"The happiness of a man in this life does not consist in the absence, but in the mastery, of his passions." - Alfred, Lord Tennyson
$\qquad$

Date: Wed, 9 Aug 2000 08:54:25-0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
Subject: RE: testing the G-D-G theory
Came thru fine!

## WeaveTech Archive 0008

```
> -----Original Message-----
> From: jimleslie [SMTP:jimleslie@elroynet.com]
> Sent: Tuesday, August 08, 2000 5:26 PM
> To: weavetech@topica.com
> Subject: testing the G-D-G theory
>
> BlankThinking I may be one of the offenders, this is a test!
> Leslie
>
```



```
> Newsletters, Tips and Discussions on Your Favorite Topics
```

Date: Wed, 9 Aug 2000 10:13:44 EDT
From: Imwarped2@aol.com
Subject: Re: Digest for weavetech@topica.com, issue 342
In a message dated 8/9/00 6:32:40 AM, weavetech@topica.com writes:
<<Subject: RE: Posselt's Dictionary of Weaves>>
Alice, Like Johnetta, I haven't been able to open the site for Posselt's Dictionary (http://www.cs.arizona.edu/patterns/weaving/weavdocs.html). I get the message the the site cannot be found. This happens very quickly which says to me that it may not be that the site is busy. Has anyone been successful trying that url?

Nancy

Date: Wed, 9 Aug 2000 10:31:11-0400
From: "Johnetta Heil" [luv2weave@ncol.net](mailto:luv2weave@ncol.net)
Subject: Re: Digest for weavetech@topica.com, issue 342
Nancy I finally got on to it this morning by typing in http://www.cs.arizona.edu/patterns/weaving/ Only problem now is it won't save to file only will print!!! I have been trying to print one thing out now for about 1 hour!!

Hugs
Johnnie

Date: Wed, 9 Aug 2000 09:58:02 -0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
Subject: RE: Digest for weavetech@topica.com, issue 342
Strange, I put that address in my "favorites" and it has worked well, sometimes the site is busy and things won't download well. I have best results first thing in the morning.
Just tried it, worked fine! I downloaded Posselt's too. Will have to study the patterns and work out the threading, seemed to be mostly twill variations of which there are Many! Double checked and the address is correct, so don't know if it was just busy or if your ISP had trouble. As for saving, it opens up Acrobat reader 4.0 then in that you click on the disk picture and give it a file name to save under, keeping the pdf extension. Does sometimes seem to be so busy it won't download, as I've downloaded a couple files then it seems to hang up and won't load. So you may have got it at a bad time.

## WeaveTech Archive 0008

Alice in MO

End of weavetech@topica.com digest, issue 343

```
From list-errors.700002588.0.701753111.004@boing.topica.com Fri Aug 11 06:29:46 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id GAA07703 for <ralph@localhost>; Fri, 11 Aug 2000 06:29:42 -0700
Received: from bas
    by fetchmail-4.5.8 IMAP
    for <ralph/localhost> (single-drop); Fri, 11 Aug 2000 06:29:44 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
    by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA06205
    for <ralph@baskerville.cs.arizona.edu>; Fri, 11 Aug 2000 03:32:10 -0700 (MST)
Received: from outmta012.topica.com (outmta012.topica.com [206.132.75.229])
        by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA17543
    for <ralph@cs.arizona.edu>; Fri, 11 Aug 2000 03:32:03 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 344
Date: Fri, 11 Aug 2000 03:31:24 -0700
Message-ID: <0.0.2101476425-951758591-965989884@topica.com>
X-Topica-Loop: 0
Status: R
-- Topica Digest --
    Re: Digest for weavetech@topica.com, issue 342
    By loomings@zoominternet.net
    Re: continuing saga of my AVL loom
    By bnathans@mindspring.com
    Re: Macomber Hooks
    By Num1weaver@aol.com
```

Date: Thu, 10 Aug 2000 17:40:20 +0000
From: Linda Liontos [loomings@zoominternet.net](mailto:loomings@zoominternet.net)
Subject: Re: Digest for weavetech@topica.com, issue 342
> Only problem now is it won't
> save to file only will print!!! I have been trying to print one thing out > now for about 1 hour!

Johnnie:
On the area that says "PDF", right click. You should get a pop-up menu. There is a choice called "Save Link As...". when this is chosen, then a Save Dialog Box will come up. Just make sure you know where it is saving and hit OK. I have printed out most of the books that Ralph has put on the site. It is a great service to all weavers.

Linda Liontos
Happy Saving!!!
---------------------------------

Date: Thu, 10 Aug 2000 21:03:44 -0700
From: Barbara Nathans [bnathans@mindspring.com](mailto:bnathans@mindspring.com)

## WeaveTech Archive 0008

Subject: Re: continuing saga of my AVL loom
Well. I am making real progress. My dobby head has been returned, I assume in robust working order. However, intermittent failures of communication between my computer and the compu -dobby were still ocurring. The whole set-up would just stop dead-- obviously no communication between loom and computer. I was jiggling the cable connector and was getting some response, which lead me to believe that the 10 year old cable might be at fault. I dashed over to the nearest Radio Shack, who wonder of wonders .had the right combination of plugs on a 6 foot cable, and wonder of wonders, that problem has disappeared.

First I needed to get the electric eye properly positioned, and that I did yesterday. The factory had used a necessary screw hole for something else, so right now a big C clamp is helping out.

I bought a new fly shuttle picker set up, and darned if that didn't need some paraffin and sandpaper to make it fit the shuttle race. thius miserable humid weather we've had for the last 2 weeks I'm afraid has affected my loom. I may have to keep the AC in my workroom on full time to keep the wood from swelling...

My next problem was getting a middle-aged IBM laptop to run Fiberworks, preferably in the Windows version. My darling husband finally got the right combination of designated com ports and disabled ones, and PCW 4.+ is now working on com port 4.... That was very exciting, as I've been whining about being unable to use that computer for months now.

The last thing left to do is line up the solenoids with the dobby head. Right now shaft 11 and 7 seem to have minds of their own. I will have to call AVL tomorrow, drat the 3 hour time difference... I thought I'd seen such instructions on AVL's web site, but its not there now. My compudobby is old and there weren't any written instructions when I purchased it. It's always lined up fine before.

Oh yes the shim I needed between the dobby arm and the loom frame is still essential. I just realized the LOOM is warped, not the dobby head. I was getting no where until I thought to replace it,

I'm beginning to feel like I might be able to weave soon. Hurrah.
Any suggestions greatly appreciated.
Barbara Nathans Bellport, Long Island, New York
$\qquad$

Date: Thu, 10 Aug 2000 23:27:01 EDT
From: Num1weaver@aol.com
Subject: Re: Macomber Hooks
I agree. I have been weaving on Macomb looms for 30 years (40", 48", $24 "--16$ shaft, 10 shaft, 6 shaft) and have never had any trouble with the tie-ups. My looms have had the old style and new style hooks and on the whole I may have had 2 or three pop off in all those years. I'm 5'7" and do very well with my loom. Although I don't weave as much now there were years when I had 300-500 yards coming off the looms.
Deanna

End of weavetech@topica.com digest, issue 344
From list-errors.700002588.0.701753111.004@boing.topica.com Fri Aug 11 09:01:32 2000

## WeaveTech Archive 0008

```
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id JAA08069 for <ralph@localhost>; Fri, 11 Aug 2000 09:01:27 -0700
Received: from bas
    by fetchmail-4.5.8 IMAP
    for <ralph/localhost> (single-drop); Fri, 11 Aug 2000 09:01:27 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
    by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id IAA09231
    for <ralph@baskerville.cs.arizona.edu>; Fri, 11 Aug 2000 08:30:29 -0700 (MST)
Received: from outmta015.topica.com (outmta015.topica.com [206.132.75.232])
    by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id IAA19987
    for <ralph@cs.arizona.edu>; Fri, 11 Aug 2000 08:30:22 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 345
Date: Fri, 11 Aug 2000 08:29:47 -0700
Message-ID: <0.0.129535219-212058698-966007787@topica.com>
X-Topica-Loop: 0
Status: R
-- Topica Digest --
    Re: trip to Colorado
    By ljwilson@juno.com
    AVL troubles
    By peter@plysplit.demon.co.uk
    RE: AVL troubles
    By amurphy@cbcag.edu
    Re: AVL troubles
    By Janis_Lane@rand.org
    AVL
    By hndwvnds@ccrtc.com
    Re: continuing saga of my AVL loom
    By carleton@mcn.org
    AVL
By willgee@mindspring.com
Re: AVL troubles
By aafannin@syr.edu
Re: continuing saga of my AVL loom
By aafannin@syr.edu
Re: AVL troubles
By amyfibre@aol.com
```

Date: Fri, 11 Aug 2000 07:47:58 -0400
From: ljwilson@juno.com
Subject: Re: trip to Colorado
Hi all,
It looks like we'll be taking a trip to the Denver/Boulder/Colorado Springs area (and maybe Durango) at the end of August. This is my first trip to Colorado and I'd love to hear any suggestions on

## WeaveTech Archive 0008

weaving/spinning/ yarn related sites to visit.
Thanks,
Linda Wilson
YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
http://dl.www.juno.com/get/tagj.

Date: Fri, 11 Aug 2000 14:25:58 +0100
From: peter collingwood [peter@plysplit.demon.co.uk](mailto:peter@plysplit.demon.co.uk)
Subject: AVL troubles
Barbara Nathan's story of electronic woe and almost final victory with her AVL.. can be interpreted as man/woman's invincible will to succeed.

But it does bring into focus my constant wonderment at weavers putting up with all that hassle (often expressed on this list) when, for example, a beautiful Gorge Wood all-wood dobby works for ever... WITHOUT plugs, cords which stop working after only 10 years, visits to Radio Shack, buying a special old laptop, jury-rigged C-clamps and nonfunctioning shafts 7 and 11.

Or is this just my 78 years talking?!
Peter Collingwood

Date: Fri, 11 Aug 2000 08:33:10-0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
Subject: RE: AVL troubles
Pushing 60 myself, while I enjoy my computers, I definitely do NOT intend to attach one of my looms to them! I can get into enough trouble without that. The wood dobby has interested me however. That I think would be manageable. Want to try some shaft switching first however. I do use an old drafting program on the computer as it is faster than doing it on paper. I use it mainly to check how a pattern may work out.
Am incline to think that adding a computer to the loom loses much of what hand weaving is about.
(Now I had better be prepared to duck!) Handweaving to me is both art and craft.

Alice in Missouri (formerly Michigan, so am not the Missouri mule when it comes to trying new stuff.)

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> T O P I C A The Email You Want. http://www.topica.com/t/16
> Newsletters, Tips and Discussions on Your Favorite Topics
```

Date: Fri, 11 Aug 2000 06:36:57 -0700
From: "Janis Lane" [Janis_Lane@rand.org](mailto:Janis_Lane@rand.org)
Subject: Re: AVL troubles
$>$
> Barbara Nathan's story of electronic woe and almost final victory with

## WeaveTech Archive 0008

```
> her AVL.. can be interpreted as man/woman's invincible will to succeed.
>
> But it does bring into focus my constant wonderment at weavers putting
> up with all that hassle (often expressed on this list) when, for
> example, a beautiful Gorge Wood all-wood dobby works for ever... WITHOUT
> plugs, cords which stop working after only 10 years, visits to Radio
> Shack, buying a special old laptop, jury-rigged C-clamps and non-
> functioning shafts 7 and 11.
>
> Or is this just my 78 years talking?!
>
> Peter Collingwood
>
```

No. I was thinking the same thing. Then again, maybe it is my 42 years talking :-)

Janis

Date: Fri, 11 Aug 2000 08:38:29 -0400
From: "Kathleen Stevens" [hndwvnds@ccrtc.com](mailto:hndwvnds@ccrtc.com)
Subject: AVL
Months ago I mentioned the fact that if your car gave as many problems as some of the AVL looms do, you would return it as a lemon. I promptly got 15 replies of irate weavers who have heavily invested in these OR similar looms. So Peter, Jane et al, perhaps you will also get replies or not, since you are more well known than I. In the meantime I am happily weaving away spending most my time at my looms and not at the electronics and hardware stores. Cheers, Kathleen Stevens
--------------------------------

Date: Fri, 11 Aug 2000 07:28:00 -0700
From: carleton@mcn.org
Subject: Re: continuing saga of my AVL loom
In response to Peter Collingwood,
It seems to me that the virtues of a computer dobby are in on loom textile design. Now some may find this a contradiction in terms as one has already done a great deal of design just get the loom dressed, and I am of the school that believes good textile design happens with threads not graph paper and computers, but if one is using more than eight shafts and had intended to weave one structure but finds that on the loom a totally different structure is what the threads want to do then the electric dobby really is of use. There is no tendency to push ahead with the original plan because of the hassle of changing peg plans etc.

But to used a electronic dobby for production work seems silly to me. Once a plan is worked out it is no great task to peg it up and then one can weave the 100 yds hassle free.

Vincent Carleton in Elk CA

Date: Fri, 11 Aug 2000 07:38:01 -0700
From: glen black [willgee@mindspring.com](mailto:willgee@mindspring.com)
Subject: AVL

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But it does bring into focus my constant wonderment at weavers putting
up with all that hassle (often expressed on this list)
-- Thank you for this thread...I've been reading the woes of the avl
weavers for some time now...wondering is it all worth it. .All my
professional weaving life I banged away at a couple of solid old
Gilmores..no bells and whistles..nothing to go wrong. What and how one
weaves is inside ones self, not inside the tools and machinery. Neither the process nor the cloth is good because of its complexity; somewhere there still has to be the artist's hand and eye and most of all, mind. glen black
Glen's Multifarious Page
http://sites.netscape.net/willgeewillgee/homepage

Date: Fri, 11 Aug 2000 10:46:49-0400
From: Allen Fannin [aafannin@syr.edu](mailto:aafannin@syr.edu)
Subject: Re: AVL troubles
At 06:26 AM 8/11/00 -0700, Peter Collingwood wrote:
>But it does bring into focus my constant wonderment at weavers putting >up with all that hassle (often expressed on this list) when, for >example, a beautiful Gorge Wood all-wood dobby works for ever... WITHOUT >plugs, cords which stop working after only 10 years,

My sentiments exactly. Having had a mill full of machinery both old as well as state-of-the-art that, like your dobby kept working trouble free, I wonder if my continuing concern for the quality of the equipment that is sold to handloom weavers in particular is just not made for what it should do. If mill equipment was a troublesome as some of what we see reported in these discussions, the manufacturer would not be in business for very long. My 50+ year old C\&K looms ran as reliably as my newer equipment. But then again, mill equipment is designed to be machinery, not a poor excuse for it.
$>0 r$ is this just my 78 years talking?!
Hardly, I'm a "l o n g" way from 78 and I share your point completely.

## AAF

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FAX: (315) 443-2562
-5300
mailto:aafannin@syr.edu>
http://syllabus.syr.edu/TEX/aafannin

Date: Fri, 11 Aug 2000 10:57:59 -0400
From: Allen Fannin [aafannin@syr.edu](mailto:aafannin@syr.edu)
Subject: Re: continuing saga of my AVL loom

## WeaveTech Archive 0008

At 07:25 AM 8/11/00 -0700, Vincent Carleton wrote:
>In response to Peter Collingwood,
>>But to used a electronic dobby for production work seems silly to me. $>$ Once a plan is worked out it is no great task to peg it up and then >one can weave the 100 yds hassle free.

Quite true. I would add that textile design was once described to me in the course of a conversastion with a non-weaver as, "...a task involving lots of interesting problem solving challanges at the beginning of a long period of tedium followed by elation at the result...". His implication during the rest of that conversation was that textile design, when done by a competent designer should not require that a fabric be actually "seen" to know how it will look. The ability to visualise the result is the mark of a design having the necessary apptitudes to do the job.

My first involvement with electronics on textile machinery was in 1972 when I re-set up and ran a computer conncected Jacquard label loom at FIT. Since that time I have seen the importance of this connection from the viewpoint of easy design changes higher loom speeds necessitating electronic Jacquards and Dobbies.

However, I'm not too sure how appropriate a use of electronic technology it is to marry this to a handloom in all cases. Most of the time on a handloom is spent in set-up and in weaving and as Vincent points out, the time involved in pegging a chain may be but a small fraction of the total production time for a piece of handloom woven goods. At some point, though, when the number of picks in a weave becomes considerable, however defined, having an electronic means of shed selection could then be justified. No matter when or how used, the technology must be reliable and from what has been said so far, it is not yet there.

## AAF

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-5300
mailto:aafannin@syr.edu>
http://syllabus.syr.edu/TEX/aafannin

Date: Fri, 11 Aug 2000 11:29:14 EDT
From: AmyFibre@aol.com
Subject: Re: AVL troubles
In a message dated Fri, 11 Aug 2000 9:27:01 AM Eastern Daylight Time, peter collingwood writes:
<< But it does bring into focus my constant wonderment at weavers putting up with all that hassle (often expressed on this list) >>

I would caution readers of this list or others not to assume that all, or even the majority, of AVLs cause such problems. While it is clearly happening, and the people involved are using the resources of this list to search for answers, it is not necessarily the norm.

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I have two AVL's -- a non-dobby 8-shaft Home Loom and a CompuDobby 16-shaft.
The former has had only one problem in the 7 years I've owned it (and woven a lot on it): shafts 1 and 2 sometimes float, depending on the threading and warp tension I currently have on the loom. Tightening the springs solved the problem. (Bonnie -- they are looser than they were when you were here! I'm experimenting to find optimal tension.)

The larger AVL CompuDobby has had no problems since I bought it used some five years ago. The black box has never needed adjusting. I am using an old (retired) 486 computer with no problems. Nothing finicky about the loom in my experience.

Given that individuals with problems are more likely to request the assistance of list members, it is always going to be true that there are more postings about AVLs with problems than people raving about their AVLs. Just a word of caution that there are very happy AVL owners *with no loom problems* out there, too.

Amy
St. Louis, M0
amyfibre@aol.com
PS -- I've had more trouble with my first loom, a Harrisville, than both of my AVL's put together: slipping brake cable, sectional beam that needed a lot of sanding to get it to fit, harnesses that hang up mid treadling, etc.

End of weavetech@topica.com digest, issue 345
From list-errors.700002588.0.701753111.004@boing.topica.com Fri Aug 11 13:06:29 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id NAA08306 for [ralph@localhost](mailto:ralph@localhost); Fri, 11 Aug 2000 13:06:24 -0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Fri, 11 Aug 2000 13:06:24 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5]) by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id LAA13288 for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Fri, 11 Aug 2000 11:50:23 -0700 (MST)
Received: from outmta008.topica.com (outmta008.topica.com [206.132.75.216]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id LAA22381
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Fri, 11 Aug 2000 11:50:21-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 346
Date: Fri, 11 Aug 2000 11:49:48 -0700
Message-ID: [0.0.1839113079-212058698-966019788@topica.com](mailto:0.0.1839113079-212058698-966019788@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
Re: AVL troubles
By isidro@bbn.com
Re: trip to Colorado
By weaveon@earthlink.net
AVL and Macomber Looms
By alcorn@pop.nwlink.com
Looms for Rugs
By alcorn@pop.nwlink.com

## WeaveTech Archive 0008

$a v l$ troubles, electronic equipment and the ;old way" By pmarriot@telusplanet.net

Re: AVL Troubles
By jnbj@aol.com
Re: trip to Colorado
By rsblau@cpcug.org
Re: AVL troubles
By rsblau@cpcug.org
colonial loom
By darmul@netbistro.com
AVL etc
By yapeters@concentric.net

Date: 11 Aug 2000 11:34:14-0400
From: isidro@bbn.com (Isidro M. Castineyra)
Subject: Re: AVL troubles
The current weave on my loom has a repeat of about 200 picks. I refuse to peg that. My AVL electronic dobby loom---ancient as it is---works perfectly for this. I did have to spend a couple of weeks getting to know it but if, I need a different design, I just load a new file. I am working with five different designs using the same structure, no pegs for me.

Isidro
--------------------------------

Date: Fri, 11 Aug 2000 09:44:31 -0700
From: June Schilbach [weaveon@earthlink.net](mailto:weaveon@earthlink.net) Subject: Re: trip to Colorado

Try Bountiful in Livermore, Colorado. Lois, the owner, is very helpful, and I have found they usually have good prices. Toll free line is 877-586-9332 and email bountiful@earthlink.net. Enjoy, June
ljwilson@juno.com wrote:
$>\mathrm{Hi}$ all,
$>$
> It looks like we'll be taking a trip to the Denver/Boulder/Colorado
$>$ Springs area (and maybe Durango) at the end of August. This is my first
$>$ trip to Colorado and I'd love to hear any suggestions on
> weaving/spinning/ yarn related sites to visit.
$>$
> Thanks,
$>$
> Linda Wilson
> YOU'RE PAYING TOO MUCH FOR THE INTERNET!
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> http://dl.www.juno.com/get/tagj.
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# WeaveTech Archive 0008 

> Newsletters, Tips and Discussions on Your Favorite Topics

Date: Fri, 11 Aug 2000 10:20:16-0700
From: Alcorn [alcorn@pop.nwlink.com](mailto:alcorn@pop.nwlink.com)
Subject: AVL and Macomber Looms
My AVL has been a joy, and no hassle YET. The problems I have had have been of my own doing. There have been funny little things like a shaft hanging up on another, but no computer interface problems. Perhaps the reason could be that the computer is new, powerful, and dedicated to the loom. I also clean the filter very regularly.

The 8 shaft $24^{\prime \prime}$ Baby Macomber, on the other hand, is a royal pain in the proverbial. Buying it new four years ago, I should not have had to figure out that the treadle hooks were constantly falling off because the treadle slots were too tight. After enlarging the slots with rough sand paper and loosening the screws at the ends of the treadle slots, I rarely have any of those problems anymore.

The metal heddles supplied with the Baby Macomber are absolute junk, constantly sticking and hanging up. I have switched to the Gilmore stainless heddles which glide easily.

The beater does not hit the frame squarely. This doesn't seem to affect the the weaving, so I don't worry about it. It is just an annoyance.

Francie Alcorn

Date: Fri, 11 Aug 2000 10:20:16 -0700
From: Alcorn [alcorn@pop.nwlink.com](mailto:alcorn@pop.nwlink.com)
Subject: Looms for Rugs
My AVL is the 24 shaft 48" Technical. Is it strong and heavy enough to weave rugs on an occasional basis?

Peter, I seem to recall that there are three looms you recommenedd for weaving rugs. The AVL was not one of these. Is this because your book was written before the AVL became so popular?

I also have a big Oxaback, but with this loom is set up as a draw loom. It is a major hassle to switch from long eyed heddles to regular ones. Would there be any reason why LEH couldn't be used in place of regular heddles? At least the shed would be enormous.

I am seriously considering selling my 8 shaft 46" Gilmore (and the hated Baby Macomber) to justify buying a 24 shaft Magic Dobby.

Francie Alcorn

Date: Fri, 11 Aug 2000 11:44:02-0600
From: "Pamela Marriott" [pmarriot@telusplanet.net](mailto:pmarriot@telusplanet.net)
Subject: avl troubles, electronic equipment and the ;old way"
I guess what is troubling me about this discussion is that it is bordering on, "only the old way is the good way" Why is it perfectly acceptable to add electronics to sewing machines, woodworking tools, kilns, find new and wonderful products that speed up a process in any craft but

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Handweaving. I agree that the designing is the height of the fun for me . I can get into the weaving part and do with regularity but often I just design, on my computer, to see what I come up with. (If I am having trouble with a new structure I always revert to my graph paper and then my sample loom cause I need to place it in my mind by doing.) But in reality that program can not replicate the threads I might use but my imagination fills that in quite adequately.

Although I have yet to put a computer assist on my loom, but soon I hope, I see its advantages. Long non repeating treadlings have no errors unless I put them there!), boring repeated treadling will have no errors. Also I find that with my loom and its conversion I will be using one comfortable treadle that will be much easier on my ankles. I have arthritis and am finding handling my 14 treadles starting to wear on me. And I use them all a lot.

But, I do agree that quality of equipment needs to be paramount. I feel with my loom maker, there is a response to queries, suggestions etc. No I do not want mill equipment in my home. Not that it is any less woven material, just not what I want in my home. I do not make a distinction between mill woven and handwoven in validity. That is a production issue, each has its advantages, both produce woven cloth, some of it wonderful. but I do want the same care and thought put into the making of home weaving equipment. Because the market is limited that takes time and money. Most of our software designers have full time jobs and this is a part time pursuit. No one has got rich in the Handweaving equipment market. But we can still insist on excellence in equipment and software or do not buy the product. I would say for me- the not being able to sample the different computer assist looms out there - is the biggest detriment. You are essentially buying the unknown. Trying to me is not sitting for an hour, it is weaving maybe a week, several hours a day, in fibres you would most likely use. Trying it out, putting on various warps, putting it through your paces. It is like buying a car off the internet without ever actually sitting in it. I have no solution to that one.

Please do not let this degenerate into a 'this is not real weaving" conversation. I think that we all work with what we want to work with. Everyone has problems with their equipment on occasion, and frequent problems are possible in both non electronic and electronic equipment.

Pamela
standing back with a flame proof suit on. Weaving on my colonial which I hope will someday have computer assist and dreaming of a single unit drawloom. (non computerized)

Pamela Marriott
Dancing Sheep Studio
Weaving \& Graphics
Swan Hills, Alberta, Canada
pmarriot@telusplanet.net
Are You in the Book?
http://www.youdraw.com
Humanity at Human Proportions

Date: Fri, 11 Aug 2000 13:45:16 EDT
From: JNBJ@aol.com
Subject: Re: AVL Troubles
And another from the AVL camp,
I've had my CompuDobby for about 8 years and have had virtually no trouble with it, and I do use it a lot. I prefer it over my mechanical dobby because of pattern changes. I often combine 3 or more patterns in the fabric, put plain weave between pieces, and recently pegged (programmed) the entire piece from beginning to end. The ability to do these things makes me very happy

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that it is available to handweavers, as imperfect as it is. With the mechanical dobby, I'd be either switching chains or advancing the chain, or skipping bars, all of which require more time. Taking into account that some patterns easily have over 100 bars, the CD is less expensive. However, I do enjoy the sound of the mechanical dobby over the electronic one!

Janice Jones

Date: Fri, 11 Aug 2000 14:17:27 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: trip to Colorado
Skyloom Fibers in Denver has closed, tho it's still listed in the phone book. :-( It was a wonderful shop, and I mourn it.

Shuttles, Spindles \& Skeins is a great shop in Boulder, and while you're in Boulder, park your car \& stroll down the Pearl Street Mall--great little shops on both sides. You'll think a time machine has dropped you back into the 60s.

There's also a nice shop in Lakewood, but the name escapes me; Lambspun, perhaps? Or something like that? Or is that the one in Fort Collins? Anyhow, nice people, nice shop.

Also while you're in Boulder, if you call ahead, you might be able to visit Schacht. It's fun to see where the looms are made. About halfway between Boulder \& Fort Collins, you could drop in on Interweave Press, in Loveland. Their office alone is worth seeing: they've remodeled what looks like (and probably is) an old bank into a wonderful admin facility for a publisher. They've kept the character of the building both inside and out, and it's really a treat.

Have a great trip--it's one of my favorite places to visit, and not just b/c my daughter \& sil live there. <ggg>

Ruth
rsblau@cpcug.org
Arlington, VA USA

Date: Fri, 11 Aug 2000 14:22:04 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: AVL troubles
Peter wrote:
>But it does bring into focus my constant wonderment at weavers putting >up with all that hassle (often expressed on this list) when, for >example, a beautiful George Wood all-wood dobby works for ever...

Yes, but isn't it the George Wood looms that Ann Sutton claims has crippled several generations of weavers in the UK? Are those the looms you weave at standing up? And one leg (of the weaver, not the loom) seems to go bad on everyone who uses them for any length of time?
>WITHOUT
>plugs, cords which stop working after only 10 years, visits to Radio >Shack, buying a special old laptop, jury-rigged C-clamps and non-
$>$ functioning shafts 7 and 11.

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Oh, Peter! How can you say such a thing??!! <ggg> You: the world's greatest master at jury rigging looms to do what you need them to do.

Nah, it can't be your 78 years talking. You must just be having a bad-loom day.

Ruth
rsblau@cpcug.org
Arlington, VA USA

Date: Fri, 11 Aug 2000 11:33:26-0700
From: "Darlene Mulholland" [darmul@netbistro.com](mailto:darmul@netbistro.com)
Subject: colonial loom
I agree with Pamela in that there are many looms, as many ways of $=$ weaving to suit the very individual weavers out here. No one loom or = method will suit us all or even one of us every day. I wonder how many = of the weavers on this list have only one loom?

One question. Does anyone weave on the Leclerc Colonial with the manual = dobby? Pros - Cons??? I just acquired a 12 shaft Colonial [another = followed me home situation] and wondered about the manual dobby. I'm = not interested in adding a compu- dobby to the Colonial although I = realize it is available. It will infact, be quite awhile before I can = consider adding even the manual dobby but inquiring minds want to know! = I've got the compu- dobby on my AVL and it sure beats the 400 lag chains $=$ I did in the past. $\langle G\rangle=20$

Darlene Mulholland
darmul@netbistro.com
Artisan Knitting Machine Dealer
www.pgmoneysaver.bc.ca/weaving/=20

Date: Fri, 11 Aug 2000 14:37:18 -0400
From: "Sue Peters" [yapeters@concentric.net](mailto:yapeters@concentric.net)
Subject: AVL etc
I can't resist joining in this loom discussion, although I should be getting ready for company.

I have had six different kinds of looms over the 20 odd years of weaving. What was super 15 years ago would not pass muster today because my interest and expectation of equipment performance has changed. Translated - looms are a very personal thing and one type does not fit all.

Computer driven vs. Pegged Dobby. - My first 8 shaft loom had a pegged dobby which was a great way to appreciate how long a treadling pattern can get. Also a great learning tool for learning what the tied up treadles were really doing. However, after about a year of pegging I decided that a computer driven dobby made sense for me. Pegged dobbys are not fool proof - they jam, so choosing a mechanical instead of electronic dobby is not fool proof.

Makes of Looms -My first small loom was a well used Macomber and I loved it. It did yeoman's service for several years. I got tired of

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the treadle tie up system, the heavy shafts and the noise so I switched to a Baby Wolf.

My first wide loom was a Cranbrook countermarche and if I win the lottery I will build a bigger studio and have another one as my second wide loom. I sold it when I became more interested in weaves which required more than four harness. I have a wide AVL which is a very good. Like it so much that I bought a second small one (24 shaft Studio) for the cottage.

The AVL loom is not perfect an I do occasionally have problems so I do follow the discussion of problems on the list and have a file of the comments of those things that I think might be handy for me to know.

These discussions about looms and their idiosyncrasies are one of the major reasons I am on the list. I do not take the comments as the final word on the merit of a given loom and don't think that the loom dictates the beauty of a woven piece. I think we should all keep in mind that looms like people operate in different ways and respect the choices of our fellow weavers. Having a variety of opinions and equipment is a plus.

Off my soap box and back to cleaning before the guest arrive.
Sue Peters near the Saginaw Bay
[yapeters@concentric.net](mailto:yapeters@concentric.net)

End of weavetech@topica.com digest, issue 346
From list-errors.700002588.0.701753111.004@boing.topica.com Fri Aug 11 19:34:18 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
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8.7.3) with ESMTP id TAA09675 for [ralph@localhost](mailto:ralph@localhost); Fri, 11 Aug 2000 19:34:12 -0700

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by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Fri, 11 Aug 2000 19:34:13 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id SAA20366
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Fri, 11 Aug 2000 18:54:19-0700 (MST)
Received: from outmta017.topica.com (outmta017.topica.com [206.132.75.234]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id SAA26994
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Fri, 11 Aug 2000 18:54:09-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 347
Date: Fri, 11 Aug 2000 18:53:30-0700
Message-ID: [0.0.701771609-212058698-966045210@topica.com](mailto:0.0.701771609-212058698-966045210@topica.com)
X-Topica-Loop: 0
Status: RO
-- Topica Digest --
Re: Digest for weavetech@topica.com, issue 345
By tpv@world.std.com
No AVL troubles
By diamor@saltspring.com
Re: AVL troubles - long
By busys@cdsnet.net

# WeaveTech Archive 0008 

Re: Digest for weavetech@topica.com, issue 344<br>By imwarped2@aol.com<br>Mechanical vs Electronic.<br>By ingrid@fiberworks-pcw.com<br>Re: AVL troubles<br>By lynnelovett@hotmail.com<br>Colorado fiber<br>By bonnieinouye@yahoo.com<br>Re: AVL troubles<br>By xlntthreadz@aol.com<br>Re: trip to Colorado<br>By rudymm@newmexico.com<br>Re: AVL troubles - long<br>By xlntthreadz@aol.com

Date: Fri, 11 Aug 2000 14:44:14-0400
From: Tom Vogl [tpv@WORLD.STD.COM](mailto:tpv@WORLD.STD.COM)
Subject: Re: Digest for weavetech@topica.com, issue 345
We have a 16 H J-comp with an electronic dobby that is a dream. It is rugged and with reasonable maintenance (an hour or two), say once every 50 yards of warp, it just keeps chugging along.

I'm in the same decade of life as Jason, but I only taught myself to weave about 12 years ago (rather than when I was eight years of or thereabouts which, in retrospect, I would have preferred). Since I also have had lifelong troubles telling left from right, I can barely manage the ten treadles on our 8 H wolf - a complicated pattern on a 16 H would defeat me. So, hurrah for electronic dobbies rather than the agony of checking and rechecking pegs. (Could pegs really do the 832 repeat pattern I just finished weaving?)

Cheers,
Tom.
www.world.std.com/~kcl tpv@world.std.com
"When did the goose that lays golden eggs turn into
a cash cow?"
K. C. Long

Date: Fri, 11 Aug 2000 12:27:03 -0700
From: "Diane Mortensen" [diamor@saltspring.com](mailto:diamor@saltspring.com)
Subject: No AVL troubles
Amy said it. You are hearing from AVL owners when they have problems. But you don't hear from the majority of us who have used our AVL compu-dobbies for years without problems on thousands and thousands of yards of fabric. My AVL is more than 15 years old and has given me wonderful service over the years with only one trip for my black box for service on a solenoid in all those years.

I used to have an English dobby which I pegged (programmed) by hand with a

## WeaveTech Archive 0008

mallet. I don't regret replacing it with an AVL. My creativity was given a big boost with the compu-dobby. Whatever I've asked of it, it has delivered and as both a production weaver and a weaver of custom textiles for clients I have asked a lot of it.

As a member in the large club of very happy AVL owners I felt I needed to set the record straight. Now I must return to my 12 shaft, supplementary warp, 156 pick repeat chenille throws to see what other wonderful things my AVL does well.

Diane
Diane Mortensen
Salt Spring Island, B.C.
diamor@saltspring.com
http://www.islandweaver.com

Date: Fri, 11 Aug 2000 12:27:27-0700
From: Margaret Copeland [busys@cdsnet.net](mailto:busys@cdsnet.net)
Subject: Re: AVL troubles - long
I've been following the evolution of the AVL Compudobby for quite a while. I have some thoughts. When Ahrens and Violette started to manufacture AVL dobby looms, the home computer was in it's infancy. Inside the Compudobby was a Z-80 processor. Remember those ? Time marched on and now we have lap tops. I'm sure that AVL has put something else inside the "Blackbox". In addition, operating systems have turned over many times and more people than ever before can afford to own home computers. Attaching a computer to a loom is a very specialized process. The Compudobby interface was designed to work with the existing dobby loom. The loom wasn't built originally to be computerized. As such you can imagine the problems.

I think the consumer of computer products has a bit of responsibility too. There is a lot of naivitÈ out there concerning connecting "peripherals" to a computer system. How many people have actually had something they bought as "plug and play" really work that way? When the first model T cars were sold they were delivered on a flatbed railcar and you got a manual and had to drive it off the railroad car. You didn't get driving lessons. In some of the same way using a computerized loom is a big learning curve. I've known people who bought the whole mess and had never turned on a computer in their lives. Bigger learning curve!

I visited my uncle one time and he had just installed a newer version of the Windows operating system on his PC. It was the most amazing thing to watch all of the operating instructions, warning boxes, flashing screens etc. appear as he booted up. He couldn't find anything on his hard drive. He had thoroughly messed it up through his own ignorance. He asked me what he should do to fix it. My answer: save what files you can, throw it away and buy another computer.

No you don't need a computer on a loom to make wonderful designs. My AVL does not have a Compudobby. I don't feel deprived but I'm also not ready to join up with the Luddites. My friend Lillian Whipple could not do many of her designs without one because each design might be upwards of 800 picks long. You could keep track of that in your head but it would be difficult. Also, I'll bet those $\$ 40 \mathrm{~K}$ industrial loom control programs aren't problem free. They may or may not get better support - it isn't always the amount of money involved. I've seen carefully selected $\$ 200 \mathrm{~K}$ accounting software systems made by a major business software company "thrown away" because nobody could make them work in a particular business situation.

- Margaret Copeland

Date: Fri, 11 Aug 2000 16:31:50 EDT
From: Imwarped2@aol.com
Subject: Re: Digest for weavetech@topica.com, issue 344

## WeaveTech Archive 0008

In a message dated 8/11/00 6:32:06 AM, weavetech@topica.com writes:
<<Any suggestions greatly appreciated.
Barbara Nathans Bellport, Long Island, New York>>
Barbara, the main suggestion I have is to borrow some patience from everyone you know. It sounds like you may have used up all you have, and rightly so. Getting the older dobby boxes seated takes time and giggleing and then luck.
It sounds so easy when described by AVL but ......
Good Luck,
Nancy
-------------------------------

Date: Fri, 11 Aug 2000 17:42:43-0400
From: Ingrid Boesel [ingrid@fiberworks-pcw.com](mailto:ingrid@fiberworks-pcw.com)
Subject: Mechanical vs Electronic.

## Hi Everyone:

I started using an AVL with a mechanical dobby and the standard 60 bars. On the second warp, I ordered 300 more.
And it still required repegging and backing up and skipping around to weave the pieces I wanted to do. And I got very bad tennis elbow and wrist problems doing so.
I reasoned, that since I already entered the peg plan in the computer, why was I pulling it back out to put it onto the chain, when I could leave it in there and get the computer assist. It still took me 2 years to get one.

The last piece I did is taquete and about 30 inches long. It is non repeating and weaves at 100 ppi. That is over 3000 lags to peg.

NO THANK YOU!
I would never have done the piece at all with mechanical dobby.
The equipment does control the designs, so I want to have the equipment that lets me do what I want, rather than having equipment that dictates what it can do, not the other way around.

But I see nothing wrong for using the AVL with all the bells and whistles to weave plain weave or simple till, it will let me. My old countermarche let me do only simple weaves with short repeats and I became very unhappy with it very quickly.

Ingrid
Ingrid Boesel, the weaving half of Fiberworks PCW
Visit us at: http://www.fiberworks-pcw.com
Email: ingrid@fiberworks-pcw.com

Date: Fri, 11 Aug 2000 17:59:59 CDT
From: "Lynne Lovett" [lynnelovett@hotmail.com](mailto:lynnelovett@hotmail.com)
Subject: Re: AVL troubles
Just had to add my 2 cents in here. I've had my AVL for 4 months or so now, and even though it is almost 20 years old, is the most delightful loom I've ever woven on. It works beautifully, is very easy to use, and helps me create truly lovely cloth. I adapted to the mechanical dobby very well, and moved from threading metal heddles on my 4 shaft loom to the texsolve heddles on the 16 -shaft AVL with no problem. Now that my dobby chains are

## WeaveTech Archive 0008

getting longer \& longer, I've just ordered a compu-dobby, as I know 4 weavers who live near me who really love theirs, and have had no problems whatsoever. It's a wonderful loom, and the best investment I've ever made. Even though I don't sell my handwovens (yet?)it is well worth it so have such a pleasing piece of equipment to weave on. Maybe it's like playing the piano on the baby grand I've had for $30+$ years is so much more satisfying than playing the same music on my family's old spinet? It's a joy, and never a chore. Sorry for railing on for so long -Lynne in scorching hot Texas -- 106 in the shade today!

Get Your Private, Free E-mail from MSN Hotmail at http://www.hotmail.com

Date: Fri, 11 Aug 2000 17:00:48 -0600
From: Bonnie Inouye [bonnieinouye@yahoo.com](mailto:bonnieinouye@yahoo.com)
Subject: Colorado fiber
--======================_7623887==_. ALT
Content-Type: text/plain; charset="us-ascii"; format=flowed
You might want to visit some galleries. In Denver, see Show of Hands, corner of Columbine and 3rd in the Cherry Creek area, and in Boulder I like the Boulder Arts and Crafts Co-op on the Pearl Street Mall. Here's another:

AMERICAN TAPESTRY ALLIANCE BIENNIAL EXHIBITION III: August 1-September 3 (extended hours on Sunday from noon-5) 37 juried tapestries by national and international artists. Catalogue available for $\$ 20+$ tax. Bayeux Gallery Contemporary Textile Art, 1133 Bannock Street, Denver, 720 359-0990, Tues-Sat 10-5:30 pm, www.bayeuxgallery.com

The fiber guilds in the state of Colorado keep each other informed, through the good services of Connie Franz.
You can obtain the most current info from the Colorado Weaving Guild Web Page: http://homestead.juno.com/cfefranz/weavingindex.html

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--======================_7623887==_.ALT
Content-Type: text/html; charset="us-ascii"
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You might want to visit some galleries.&nbsp; In Denver, see Show of
Hands, corner of Columbine and 3rd in the Cherry Creek area, and in
Boulder I like the Boulder Arts and Crafts Co-op on the Pearl Street
Mall. Here's another:<br>
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AMERICAN TAPESTRY ALLIANCE BIENNIAL EXHIBITION III: August 1-September 3
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and <br>
international artists. Catalogue available for $20 + tax. Bayeux Gallery
<br>
Contemporary Textile Art, }1133\mathrm{ Bannock Street, Denver, 720 359-0990,
Tues-Sat <br>
10-5:30 pm,
<a href="http://www.bayeuxgallery.com/" eudora="autourl"><font
color="#0000FF"><u>www.bayeuxgallery.com</a><br>
<br>
</font></u>The fiber guilds in the state of Colorado keep each other
informed, through the good services of Connie Franz. <br>
You can obtain the most current info from the Colorado Weaving Guild
<br>
Web Page:
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## WeaveTech Archive 0008

<a href="http://homestead.juno.com/cfefranz/weavingindex.html" eudora="autourl"><font color="\#0000FF"><u>http://homestead.juno.com/cfefranz/weavingindex.html<br> </a></font></u></html>
$--=====================17623887==$. ALT --
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Date: Fri, 11 Aug 2000 20:01:50 EDT
From: XlntThreadz@aol.com
Subject: Re: AVL troubles
Okay, I'll ask the dumb question.
<< a beautiful Gorge Wood all-wood dobby works for ever >>
Where do we find out more about this loom?
Jan M ; ) [] \#\#\#\#\#\#\#\#\#\#\# who's winkin' \& weavin' at [xlntthreadz@aol.com](mailto:xlntthreadz@aol.com)

Date: Fri, 11 Aug 2000 18:23:55-0600
From: Michelle \& Cliff Rudy [rudymm@newmexico.com](mailto:rudymm@newmexico.com)
Subject: Re: trip to Colorado
Have you looked at: http://www.woolworks.org/ ? It is a good site that lists many, many yarn shops in Colorado, including weaving and spinning shops. The shop in Lakewood is probably "The Recycled Lamb." Lambspun is in Fr. Collins. It has many nice yarns and fibers. For Denver the site lists Ewenique Yarns and Strawberry Tree, probably oriented toward knitting but with some reliable weaving yarns (Brown Sheep). Another site to check is http://www.knittinguniverse.com/ This site also lists shops. The store is Boulder is the place to go for weavers and spinners.

Michelle in White Rock NM

Date: Fri, 11 Aug 2000 20:30:42 EDT
From: XlntThreadz@aol.com
Subject: Re: AVL troubles - long
<< When the first model T cars were sold they were delivered on a flatbed railcar
and you got a manual and had to drive it off the railroad car. You didn't get driving lessons. >>

This brings up the whole idea of service/support. With the Model T (which contrary to what Ford tells us, wasn't even close to being the first car) you should have gotten driving lessons. My aunt, in addition to being chief mechanic and bookkeeper of the family dealership also sold cars and taught the new owners how to drive. In 1911 alone she taught over 1000 people how to drive.

I managed to get a Studio Dobby to do its dead cockroach imitation (with the VP of Marketing looking on) after only two picks on the floor of Convergence '98. And they still didn't have it working the next day. What for many of us was our only chance to "learn to drive" an AVL this should have been the most lightning fast service, even if they had to hook up a whole new rig.

Jan M ; ) [] \#\#\#\#\#\#\#\#\#\#\# who's winkin' \& weavin' at [xlntthreadz@aol.com](mailto:xlntthreadz@aol.com)

## WeaveTech Archive 0008

End of weavetech@topica.com digest, issue 347
From list-errors.700002588.0.701753111.004@boing.topica.com Sat Aug 12 06:37:42 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
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8.7.3) with ESMTP id GAA09815 for [ralph@localhost](mailto:ralph@localhost); Sat, 12 Aug 2000 06:37:38 -0700

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Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
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for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Sat, 12 Aug 2000 03:35:26 -0700 (MST)
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by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA02298 for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Sat, 12 Aug 2000 03:35:05 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 348
Date: Sat, 12 Aug 2000 03:31:26 -0700
Message-ID: [0.0.1373230026-951758591-966076286@topica.com](mailto:0.0.1373230026-951758591-966076286@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
my 2 cents...
By pfundt@netnet.net
Re: end of story
By bnathans@mindspring.com
Re: love/hate my AVL
By laurafry@netbistro.com
Jim Ahrens
By bonnieinouye@yahoo.com

Date: Fri, 11 Aug 2000 20:56:23-0500
From: "KarenInTheWoods" [pfundt@netnet.net](mailto:pfundt@netnet.net)
Subject: my 2 cents....
...usually a lurker here..I couldn't resist this thread on puters/dobbies/ hassels.....

When MY friends see me fiddling with snarled warps, painstakingly threading heddles and carefuly hemstitching on my little four harness looms ...they ask me : "Gee.......why do you go through all that when you could just buy those kitchen towels at Walmart ???"

So.. putting it into perspective, I guess we all put up with whatever we wish to create whatever we wish.... and Viva La Difference!

Karen In The Woods
(Although I am sure there's some big, big loom out there in my future...)
$\qquad$

Date: Sat, 12 Aug 2000 00:19:22 -0700
From: Barbara Nathans [bnathans@mindspring.com](mailto:bnathans@mindspring.com)

## WeaveTech Archive 0008

Subject: Re: end of story
Man, what a can of worms I've opened!! I may have sounded like I had a lot of problems, but they certainly were resolved in one days time. This morning I did just what Nancy said-- a little jiggling and giggling on the shim on the dobby arm and the loom is back in excellent working form.

Most of my delight with my compu-dobbied AVL has already been expressed by others so I won't bother to repeat my satisfaction with the loom .

Margaret put her finger on my computer problem...my ignorance, or rather bravado. I wasn't as familiar with my "new" computer as I thought and caused my own problems there.

As for the compu-dobby, I love the freedom to make multi-lagged designs without having to peg the bars-- which I did with growing frustration for 7 or 8 years--.
And the freedom to weave 3 or 5 yards or however small an amount I want--NOT production runs of a few hundred yards-- and then switch to another equally long draft at the click of a few keys, with no tedious pegging..

Yes an indestructible industrial sized loom would be splendid, but $I$ use a portion of my small house for a studio, and couldn't begin to have space for one of the big boys.

I use the analogy of playing the piano often. I weave for my pleasure and education, not to make money , just the way many people play an instrument..

Our sometimes incredibly damp and humid ocean-side summer climate would make any wooden loom, I fear, apt to swell and stick. Doors and windows are wide open.day and night.

Invincible will to succeed?? No just determination and a few hours invested to get a good piece of equipment reassembled after a simple servicing.

Glenn-- some artists' minds want to express themselves with complex designs. It doesn't make the design automatically good-- or bad either.

Now if you want to talk about a piece of equipment with wonderful design possibilities that is sold in a form not strong enough for home use, I give you the automated knitting machine. That's another story.....
Barbara Nathans Bellport, Long Island, New York

Date: Fri, 11 Aug 2000 19:27:16 -0700
From: Laura Fry [laurafry@netbistro.com](mailto:laurafry@netbistro.com)
Subject: Re: love/hate my AVL
When I decided to buy an AVL in 1981, I had read Allen Fannin's Handloom Weaving Technology and looking around the marketplace had a choice between the AVL and the Llangolyn (SP?) loom from Great Britain. At that time, these two looms were the only ones that had the features that were recommended for someone interested in a "production" loom - auto cloth advance, fly shuttle, dobby. Quite frankly I preferred the Llangolyn for a number of reasons, but it was ruled out for two - cost and space requirements.

Well, the only two looms I knew about, coming from the interior of British Columbia, and living eons away from the textile

## WeaveTech Archive 0008

industry where other options may have been available.
Over the years the AVL has allowed me to weave in excess of 250 yards per month ( $18-20 \mathrm{ppi}$ ). When it is working. Unfortunately, it doesn't always. And because I am dependant upon my income from weaving, and when I'm not weaving I'm not earning any money, these periods of down time are frustrating in the extreme. Especially when it has been found that a simple and relatively cheap precaution would have prevented the equipment failure in the first place as has been found on a number of occasions.

Suggestions have been made to AVL regarding these "failures" whether or not they have been adapted into newer looms I know not.

The problem for me has not been with the loom per se - it is a wooden machine and subject to the vagaries of humidity. Adding first the compu-dobby, then the air assist has simply added more and more layers of technology which take their turns "failing".

As has been pointed out to me, I am in the minority in that I actually expect my equipment to weave 10 to 15 yards a day *every* day - very few weavers "abuse" their equipment that
way. (!) (Not my words folks......)
So, I *love* my AVL for its efficiency which allows me to actually earn a "reasonable" income from weaving. The fly shuttle, auto-cloth advance, compu-dobby - all features I would not want to give up (even tho I've been doing a *lot* of "plain" weaving on an elderly Leclerc Fanny - talk about a work horse - and loving it - turns out I'm a colour person after all?) ;^)

But I also need the services of my DH - experienced wood worker, electrical, pneumatic, and tinkerer extrordinaire to keep the AVL working.
(In this case DH stands for Dedicated Handyman)
Laura Fry
who is currently not weaving because weft yarn is stuck in transit - *somewhere* - and not making any money..... :P~

Date: Fri, 11 Aug 2000 23:06:28-0600
From: Bonnie Inouye [bonnieinouye@yahoo.com](mailto:bonnieinouye@yahoo.com)
Subject: Jim Ahrens
I was in Utah this week and had the great pleasure of visiting Jim and Ethel Ahrens at their home. I went with 3 other weavers I know from Complex Weavers, two of whom were already friends of the Ahrens and arranged this for me. Thanks, Judie!

I believe Jim is now 94. He complained that he can't use fine threads any more; he used to weave on exceedingly fine silk, very closely sett, and his current warp is a $10 / 2$ cotton I think. Ethel showed us a very nice dishtowel he made recently. Just because of Peter's message about dobby bars, I want to tell you that Jim is pegging bars. He showed us the most wonderful fly shuttle, incredibly easy and restful to use. Interestingly, his dobby loom works with 2 treadles and each advances the chain so you can weave with alternating treadles.

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In the garage, there is an amazing warping system. Most parts work with very simple mechanisms. A cord winds around a pole, for example. Or small weights are placed to increase tension on threads. One part includes a stand for a small warping drum, and he stands on the base to add stability while using it. Parts of this system are attached to the ceiling of the garage-- talk about finding under-used space! When the drum is full, he moves it off the stand and into the studio, where it sits on top of the loom, in back, with guides below for the yarn.

He moves slowly now, with a cane, but is still full of interesting ideas. I took lots of digital photos and will let you all know when I have time to post them someplace. Right now I am getting ready for a trip to Austria and Switzerland, leaving Monday morning. But last Tuesday was a real treat. We also saw a wonderful exhibit in Provo, if anybody is going there, baskets and glass.

Bonnie Inouye
www.geocities.com/bonnieinouye

End of weavetech@topica.com digest, issue 348
From list-errors.700002588.0.701753111.004@boing.topica.com Sat Aug 12 12:11:32 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
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8.7.3) with ESMTP id MAA10307 for [ralph@localhost](mailto:ralph@localhost); Sat, 12 Aug 2000 12:11:26-0700

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by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Sat, 12 Aug 2000 12:11:27 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id LAA11055
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Received: from outmta002.topica.com (outmta002.topica.com [206.132.75.237])
by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id LAA05269
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Sat, 12 Aug 2000 11:50:33-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 349
Date: Sat, 12 Aug 2000 11:49:58 -0700
Message-ID: [0.0.730928112-212058698-966106198@topica.com](mailto:0.0.730928112-212058698-966106198@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
Re: AVL Loom
By hubbard182@worldnet.att.net
Re: trip to Colorado
By rsblau@cpcug.org
Re: avl troubles, electronic equipment and the ;old way"
By archfarm@nas.com
other dobby looms
By darmul@netbistro.com
Fascinating old book
By ryeburn@sfu.ca
bonnies story
By pmarriot@telusplanet.net

# WeaveTech Archive 0008 

Re: Fascinating old book By BOOKS@WOODENPORCH.COM

Re: Fascinating old book
By rsblau@cpcug.org
If you are on I-64 in Ky
By dumke@marshall.edu
Re: Fascinating old book
By apbutler@ync.net

Date: Fri, 11 Aug 2000 23:09:48 -0400
From: "Jeffrey D. \& Martha H. Hubbard" [hubbard182@worldnet.att.net](mailto:hubbard182@worldnet.att.net) Subject: Re: AVL Loom

I subscribe wholeheartedly to the opinion that we are hearing from only those AVL users who are having problems. And I suspect die-hard Macomber users would say the same thing about the treadle hook conversations of late.

Of all the looms that I have owned, my 2 AVL's, first a 16 shaft and now a 24 shaft, have been the best for my purposes. And isn't that what it's all about - finding the right equipment for your purposes? Although I loved both of my Norwoods and hated to give them up, I quickly outgrew them in terms of shaft and treadle numbers. My Harrisville was a piece of junk. The harness cables jumped off the pulleys every time I tried to weave fast. My Macomber had the same treadle hook problem that many other weavers have been struggling with and the front-hinged treadles gave me constant lower back pain.

My pegplans often run to 1500 to 2000 picks. I couldn't abide constantly repegging and reversing or restarting chains to achieve my designs. My AVL has not been perfect. To be truthful, it had a number of quality control problems that were a nuisance when I first got it. But its myriad of wonderful features have made up for my time in dealing with the minor problems that I've had. It's a workhorse with a lot of moving parts. Things happen with moving parts. You just have to deal with them and move on.

As for this type of weaving being other than handweaving, someone (sorry, I've forgotten who, but my imperfect memory tells me that it was Verda Elliott) once said that any loom that stops weaving when the weaver removes his/her hands and feet from it is and always will be a handloom. Whether or not one considers it a handloom, if it weren't for my AVL with air assist to relieve my ageing knees, my weaving career would either be over or restricted to a table loom. I don't want to contemplate the thought. So call it what you like. I'll stick to my AVL.
Martha

Date: Sat, 12 Aug 2000 08:38:23 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: trip to Colorado
>The shop in Lakewood is probably "The Recycled Lamb." Lambspun is >in Fr. Collins.

Sorry. I knew it was lamb-something. <ggg>
Ruth
rsblau@cpcug.org

# WeaveTech Archive 0008 

Arlington, VA USA
-------------------------------------------------------------------------
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Date: Fri, 11 Aug 2000 20:25:34-0700
From: archfarm@nas.com
Subject: Re: avl troubles, electronic equipment and the ;old way"
Pamela Marriott wrote:
$>$
$>\quad$ I guess what is troubling me about this discussion is that it is > bordering on, "only the old way is the good way" Why is it perfectly > acceptable to add electronics to sewing machines, woodworking tools, kilns, > find new and wonderful products that speed up a process in any craft but
> Handweaving.
Your entire post was a welcome breath of fresh air, Pamela! And that is not said to add air to the tinder, merely to encourage a fuller discussion.

I would love to hear about other computer or electronically assisted looms on the market than the AVL. Someone mentioned a Swiss manufacturer for example. And where is Toyoda in this class of loom?

Thanks in advance, I'll go enjoy some Somores now. Make it sweet. Myra

Date: Sat, 12 Aug 2000 09:07:34-0700
From: "Darlene Mulholland" [darmul@netbistro.com](mailto:darmul@netbistro.com)
Subject: other dobby looms
I know someone who is having a horrid time trying to get a Leclerc = compu-dobby going. She is sending the whole thing back for Leclerc to = try and find out why is doesn't work. This is a major reason I wouldn't = consider computer assist for a Leclerc loom - I just don't have the = patience for stuff like that. Also I really like Fiberworks and they $=$ don't have a driver for Leclerc looms.

As I've got a compu - dobby 2 on my AVL I thought it reasonable to add = the mechanical dobby to my Colonial but so far I haven't had anyone's = comments on using this system on the Leclerc. The super long repeats = could go on the AVL and shorter on the Leclerc. I would really like to $=$ hear how it works etc. as crawling under a loom to do tie ups is not $=$ high of my list of exciting moments. <G> I know I just don't have the = right attitude! Please, let's hear some opinions. It is too much money = to drop into an unknown bucket - at least for me. 8^)

Darlene Mulholland
darmul@netbistro.com
Artisan Knitting Machine Dealer
www.pgmoneysaver.bc.ca/weaving/=20

Date: Sat, 12 Aug 2000 09:17:38 -0700
From: Jo Anne Ryeburn [ryeburn@sfu.ca](mailto:ryeburn@sfu.ca)
Subject: Fascinating old book
While designing some fabric, I had a need to produce vertical stripes of undulating twill on four harnesses, and I found a draft for that, a very

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good draft, by the way, in an old Shuttle Craft Guild monograph written by Harriet Tidball and titled "The Handloom Weaves." Looking further through this 38 page publication (book? pamphlet?) I was fascinated to see how thoroughly it covered most of the well known weaves (here called "Systems") and many of the lesser known ones, such as the Bateman weaves and "the Bergman System." Tidball wrote that this books is "...an avenue to that exciting but elusive state known as understanding."

Most "Systems" are clearly but briefly explained with tieups, threadings and treadlings, but one leaves exploration up to the weaver: the "Double Summer and Winter System," which "...permits one to weave every single Summer and Winter variation, plus four-harness double weave, plus some unusual pattern double-weave textures, plus everything which can be done on four-harness twill, plus hundreds of special fancy twill variations which would require twice as many harnesses if drafted on straight twill. Who could ask for more of a threading System?" Who indeed? I have used the threading blocks she specifies (1324, 1526, 1728, etc.) and agree that they are flexible, but I never realized how flexible!

Near the end I found an interesting "Blanket Weave System" ("An odd and little little known weave which produces a firm but soft fabric suitable for blankets of all kinds>") and two tantalizing catch-all grouped "Systems" where she only briefly indicated weaves: The "Balanced Texture-Complex Systems" (multiple harness point twills and "oddity weaves) and "Unbalanced Texture_Complex Systems" (Bedford cords and piques)

I think these monographs are still being published, but I have lost the reference to the publisher. This modest publication yields many treasures and is worth owning.

Jo Anne
Jo Anne Ryeburn ryeburn@sfu.ca

Date: Sat, 12 Aug 2000 10:18:57 -0600
From: "Pamela Marriott" [pmarriot@telusplanet.net](mailto:pmarriot@telusplanet.net)
Cc: "Weave Tech" [weavetech@topica.com](mailto:weavetech@topica.com)
Subject: bonnies story
Bonnie,
What a wonderful field trip. I intend to be weaving that long in life as well. Will just have to make adjustments to my equipment as I age I guess.

Well off to the loom, yard wok is finally caught up and time for me. We have had a cold summer hear including frost last night. Sheesh. I was just getting peas..........did think to put the fuschia's in the greenhouse
though.
Pamela
Pamela Marriott
Dancing Sheep Studio
Weaving \& Graphics
Swan Hills, Alberta, Canada
pmarriot@telusplanet.net
Are You in the Book?
http://www.youdraw.com
Humanity at Human Proportions

# WeaveTech Archive 0008 

From: Lois [books@woodenporch.com](mailto:books@woodenporch.com)
Subject: Re: Fascinating old book
Jo Anne,
The booklet that you me
is available from Unico
$\$ 9.95+$ shipping.
Lois
Jo Anne Ryeburn wrote:
> While designing some fabric, I had a need to produce vertical stripes of > undulating twill on four harnesses, and I found a draft for that, a very > good draft, by the way, in an old Shuttle Craft Guild monograph written by > Harriet Tidball and titled "The Handloom Weaves." Looking further through > this 38 page publication (book? pamphlet?) I was fascinated to see how > thoroughly it covered most of the well known weaves (here called "Systems") > and many of the lesser known ones, such as the Bateman weaves and "the > Bergman System." Tidball wrote that this books is "...an avenue to that > exciting but elusive state known as understanding."

Lois Mueller
Wooden Porch Books
books@woodenporch.com

Date: Sat, 12 Aug 2000 12:45:49-0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: Fascinating old book

## Jo Anne wrote

>but one leaves exploration up to the weaver: the "Double
>Summer and Winter System," which "...permits one to weave every single
>Summer and Winter variation, plus four-harness double weave, plus some >unusual pattern double-weave textures, plus everything which can be done on >four-harness twill, plus hundreds of special fancy twill variations which $>$ would require twice as many harnesses if drafted on straight twill. Who >could ask for more of a threading System?" Who indeed? I have used the >threading blocks she specifies (1324, 1526, 1728, etc.) and agree that they >are flexible, but I never realized how flexible!

This is also known as double two-tie threading and was extensively explored in Barrett \& Smith, "Double Two-Tie Unit Weaves," probably out of print. Our multishaft study group spent last year working with this threading system, and it is indeed wonderfully flexible.

Ruth
rsblau@cpcug.org
Arlington, VA USA

Date: Sat, 12 Aug 2000 14:48:19-0400
From: Warren Dumke [dumke@marshall.edu](mailto:dumke@marshall.edu)
Subject: If you are on I-64 in Ky
There is an exhibit of ethnic (minority) costume from Guangzi Province in China (Zhuang, Yao, Dong, and Miao) at the Kentucky Folk Art Center in Morehead Kentucky until September 30, 2000. Apparently this is the

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first time out of China and the only stop. Great pieces, no glass except for jewelry, labels sometimes confuse techniques, and the colors are energetic but the pieces are well worth seeing. Address 102 West First St. Morehead Ky 606-783-2204 www.kyfolkart.org : Recommended if in the vicinity, it is on the second floor but there is an elevator so it is handicapped accessible. There is one photograph of an old damask loom in operation as well as a traditional south China one.

Judy Dumke

Date: Sat, 12 Aug 2000 13:52:42 -0500
From: "Su Butler" [apbutler@ync.net](mailto:apbutler@ync.net)
Subject: Re: Fascinating old book
\gg in Barrett \& Smith, "Double Two-Tie Unit Weaves," probably out of >>print.

This book is still available, as far as I know...I recently purchased a new copy as mine was getting worn.......I believe I got it from Halcyon, but cannot remember for sure.......I have also seen numerous copies of this book on the www.abebooks.com web site, under the keyword weaving.

Su Butler :-) apbutler@ync.net
"The happiness of a man in this life does not consist in the absence, but in the mastery, of his passions." - Alfred, Lord Tennyson

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End of weavetech@topica.com digest, issue 349
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To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 350
Date: Sun, 13 Aug 2000 03:30:52 -0700
Message-ID: <0.0.142566921-212058698-966162652@topica.com>
X-Topica-Loop: 0
Status: R0
-- Topica Digest --
    Re: Looms for Rugs
    By apbutler@ync.net
    Northern Laos
    By debmcclintock@compuserve.com
    Double Two-Tie Unit Weave
```


# WeaveTech Archive 0008 

By eunismit@javanet.com
Re: Northern Laos
By soloviova@earthlink.net
Re: Northern Laos
By 2tarotz@win.bright.net
Re: other dobby looms
By carleton@mcn.org

Date: Sat, 12 Aug 2000 14:14:31 -0500
From: "Su Butler" [apbutler@ync.net](mailto:apbutler@ync.net)
Subject: Re: Looms for Rugs
> My AVL is the 24 shaft 48" Technical. Is it strong and heavy >enough to weave rugs on an occasional basis?

HI Francie......I did not see a response from Peter, so will chime in here.....I do not believe the AVL looms are built to withstand the rigors of rug weaving.....you must be able to maintain extremely high tension, and AVL is certainly not known for that.....the framing members of the loom need to be of a dimension so they will not succumb to warping under the extreme tension. ....2x6" members are good for starters. Also, the braking system on any AVL I have ever seen would not be adequate for maintaining the tension required for a rug. You really need a good, heavy ratchet and pawl setup. Since AVL's are rising shed looms, they do not lend themselves to rugs...CM action is really the most efficient and functional. It is difficult to get a good shed with extreme tension on a rising shed loom without the drawback of floating shafts........Also - you need a very heavy loom so it will not walk around the floor, and while the larger AVL's may be heavy, if the beater is not heavy enough to pack the weft, the loom will still walk about the room as you weave.

That said, you could weave an occasional rug on an AVL, but IMPO, the quality simply cannot be as high as that woven on a loom specifically designed for rugs.

Your Oxaback may be able to take rug weaving, in fact I would venture a guess it would be a good rug loom.....but having never seen one in person, I could not answer about using the long eyed heddles.....but I will say if you can get a clean shed under extreme tension, then why not??

I look forward to Peter's comments on this as well.......and just FYI, the rugweavers list is a terrific source of info on good looms and weaving practices related to rugs..... www.rugweavers.com

Su :-) apbutler@ync.net
"The happiness of a man in this life does not consist in the absence, but in the mastery, of his passions." - Alfred, Lord Tennyson

Date: Sat, 12 Aug 2000 16:24:08 -0400
From: Deb McClintock [DEBMCCLINTOCK@compuserve.com](mailto:DEBMCCLINTOCK@compuserve.com)
Subject: Northern Laos
Hi, on 8/15 I am flying over to southeast Asia for a trip into northern Laos to help document the costumes, weaving and dyeing process in the (Sam Neau) region. This trip is sponsored by the University of California - Davis (web page is http://urep.ucdavis.edu). It will definitely be one of the weaving trips of a lifetime. Two books which were

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recommended were Lao Textiles by Mary F Conners and Lao Textiles, Ancient Symbols by Patricia Cheesman. Both books are absolute gems and highly informative. Reading them helped me prepare for what I will see. =

I am very curious about the vertical heddle system with pattern rods which is used. I plan to take photos and collect information on the use of this system. My question is has anyone run across a monograph or paper written on this process. There are two processes, one which introduces supplementary WARP threads, another which allows repetitive use of supplementary
WEFT threads. =
Any information would be appreciated. Thanks and I =
will definitely report back. Will return back to US on 9/5. =
Deb McClintock
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Date: Sat, 12 Aug 2000 17:13:40-0400
From: Eunice Smith [eunismit@javanet.com](mailto:eunismit@javanet.com)
Subject: Double Two-Tie Unit Weave
I still have a few copies of this book around the house for the original price. It can be in your mail box in 2 to 3 days. E-mail me privately for details.

Eunice Smith [eunismit@javanet.com](mailto:eunismit@javanet.com)
$\qquad$

Date: Sat, 12 Aug 2000 20:14:49 -0700 (PDT)
From: Carrie Brezine [soloviova@earthlink.net](mailto:soloviova@earthlink.net)
Subject: Re: Northern Laos
$>$
$>$ I am very curious about the vertical heddle system with $>$ pattern rods which is used. I plan to take photos and $>$ collect information on the use of this system. My >question is has anyone run across a monograph or > paper written on this process. There are two processes, > one which introduces supplementary WARP threads, $>$ another which allows repetitive use of supplementary $>$ WEFT threads.
$>$

Have you looked up the book "Pattern and Loom" by John Becker? It has some information on pattern rods and heddles, in the context of ancient Chinese weaving... it might not be exactly what you are looking for, but could be interesting nonetheless.

Carrie, portland OR
$>$
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Date: Sat, 12 Aug 2000 22:35:30 -0500
From: shawn cassiman [2tarotz@win.bright.net](mailto:2tarotz@win.bright.net)
Subject: Re: Northern Laos

## WeaveTech Archive 0008

Once again, Pattern Devices for Handweavers! Doramay goes into detail on pages 42-44 and also includes nice photos. I was lucky enough to find the book, but made do with Inter-library loan until I did. Sounds like an incredible trip. Shawn

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>>
>>I am very curious about the vertical heddle system with
>> pattern rods which is used. I plan to take photos and
>> collect information on the use of this system. My
>>question is has anyone run across a monograph or
>> paper written on this process. There are two processes,
>> one which introduces supplementary WARP threads,
>> another which allows repetitive use of supplementary
$\gg$ WEFT threads.
>>
$>$

Date: Sat, 12 Aug 2000 22:40:53-0700
From: carleton@mcn.org
Subject: Re: other dobby looms
>I know I just don't have the right attitude! Please, let's hear some >opinions. It is too much money to drop into an unknown bucket - at $>$ least for me. 8^)
>Dear Darlene,
It doesn't seem a matter of attitude to me. I really is a matter of practicality. If you are using a multishaft loom and want to weave pictures or some motif that requires a very long chain and you don't feel up to pick-up or a draw loom then the compu dobby is the obvious choice. If you are a production weaver and are running designs that repeat in a few inches then a mechanical dobby is the natural solution. It really is a matter of what you want to weave and wether it is worth the trouble in the first place.

I must admit that I am confused by some of the numbers mentioned in this discussion. Chains of lags more than 200 seem very odd to me. I am not clear on what sort of cloth these chains produce and if they are not really one of a kind picture like weaving that would be more practically woven with a pickup stick or draw loom. I have used the old English style set up, that Jim Arhens suggested to me almost 20 years ago, where I have two ground harnesses slung outside of the dobby harrness and set to their own treadles so that ground structure can be controlled by my left foot and pattern by my right foot through the dobby. This eliminates having to peg a lag for every pick of the cloth. I also prefer double index dobbies as they economize on bars and let one do double weaves in a very economical way.

Vincent Carleton in Elk, CA
>Darlene Mulholland
>darmul@netbistro.com
>Artisan Knitting Machine Dealer
>www.pgmoneysaver.bc.ca/weaving/
$>$
$>$
>T 0 P I C A The Email You Want. http://www.topica.com/t/16 >Newsletters, Tips and Discussions on Your Favorite Topics

## WeaveTech Archive 0008

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To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 351
Date: Mon, 14 Aug 2000 03:31:02 -0700
Message-ID: <0.0.83104294-212058698-966249062@topica.com>
X-Topica-Loop: 0
Status: R
-- Topica Digest --
    Re: other dobby looms
    By janee@softweave.com
    Designer's drawloom
    By gritz@hpnc.com
    Long Chains
    By ingrid@fiberworks-pcw.com
    Re: AVL and Macomber Looms
    By cynthb@uswest.net
    Re: Learning curve of compudobby
    By tspwehrung@aol.com
    Re: Learning curve of compudobby
    By rsblau@cpcug.org
    AVL Looms for Rugs
    By mmcmillan@sprynet.com
    long chains
    By bonnieinouye@yahoo.com
```

Date: Sun, 13 Aug 2000 07:28:48 -0400
From: Jane Eisenstein [janee@softweave.com](mailto:janee@softweave.com)
Subject: Re: other dobby looms
>from Vincent Carleton in Elk, CA
$>$ I must admit that I am confused by some of the numbers mentioned in >this discussion. Chains of lags more than 200 seem very odd to me. I >am not clear on what sort of cloth these chains produce and if they

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>are not really one of a kind picture like weaving that would be more >practically woven with a pickup stick or draw loom.

The type of free form multi-weft double weave I do quickly extends beyond 200 picks. I actually break my designs up into sections so that I can work with drafts of less than 1000 picks at a time. Yes, my current designs are really one of a kind pictures. However, most of my multi-weft double weave textile designs have more than a thousand picks per repeat. No, I don't have the mental capacity to do this type of weaving using pickup. I don't know whether they could be woven with a draw loom, but I don't have a draw loom and can weave them with a compudobby.

By the way, I have done figurative pickup of twill structures on a tabby background using a treadled 8-shaft loom. For that type of weaving I'd hate to try to give up the freedom of pickup for the dobby equivalent.
>I also prefer double index dobbies as they economize on
>bars and let one do double weaves in a very economical way.
I haven't heard of a double index dobby before. Can you point me to a reference?

Jane Eisenstein

Date: Sun, 13 Aug 2000 08:44:52-0500
From: "Aaron and Carolyn Gritzmaker" [gritz@hpnc.com](mailto:gritz@hpnc.com)
Subject: Designer's drawloom
Has anyone on this list used a Designer's drawloom? How does this rising shaft drawloom compare to a rising/sinking shed drawloom?

Carolyn Gritzmaker

Date: Sun, 13 Aug 2000 11:49:43-0400
From: Ingrid Boesel [ingrid@fiberworks-pcw.com](mailto:ingrid@fiberworks-pcw.com)
Subject: Long Chains
Hi Vincent.
The 200 to 5000 long lag chains are not just for picture pieces. I
sometimes weave silk shawls with non repeating twills of different kinds (see the Fiberworks ad in Complex Weavers Journal in Jan I believe.) I did a skirt in 2 blocks of 8 shaft twill where each block went from 1/7 to $7 / 1$ twill gradually. That would take 49 treadles. Each block was repeated an increasing number of times for the length of one skirt panel.

To peg one repeat of one block took 8 picks, therefore it would take 56 bars to do all 7 different treadlings of the blocks. Not too large a number but I wanted to control the length of the repeat exactly and that would mean that I had to count each pick.
With the computer assist I calculates the number of repeats for each block, and designed the file so that a skirt panel was complete. Then I was confident that the repeats were all the same size. Off I went.

Another thing that needs tons of lags is taquete and samitum in 2 or more colours. This cannot be done with the separate sets of shafts for ground picks between the supplementary wefts, as there are no ground weaves in a complementary weft structure. And it need not be "pictures" either. One "block" in 3 colour 4 tie Samitum will take 12 picks. So you can see that

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the number of lags can become astronomical in even a small design if using 6 colours and a long repeating motif.

Just some of the thing that I have done with the computer assist that are not easy to do any other way. Pick up is not easy and neither is draw loom in my estimate.

By the way CompuDobby is an AVL trademark and applies only to AVL's computer dobby boxes. Each manufacturer has a trade marked or copyright on the name of their computer assisted dobby heads.

Let's use COMPUTER ASSISTED DOBBY, COMPUTER DOBBY, ELECTRONIC DOBBY or some other form as the generic name.

Ingrid
Ingrid Boesel, the weaving half of Fiberworks PCW Visit us at: http://www.fiberworks-pcw.com Email: ingrid@fiberworks-pcw.com

Date: Sun, 13 Aug 2000 09:52:26 -0700
From: kip broughton [cynthb@uswest.net](mailto:cynthb@uswest.net)
Subject: Re: AVL and Macomber Looms
> The 8 shaft 24" Baby Macomber,
$>$
> The beater does not hit the frame squarely.
Since no one else has addressed this problem I will put in my .02. The baby Macs (and the big Macs, too) have an adjustment at the pivot point at the bottom of the beater in case there is some warping or misalignment. Loosen the nuts on each side, align the beater and tighten again. On the baby Mac there is a lot of room for adjustments. Know your equipment before complaining. Cynthia Broughton
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Date: Sun, 13 Aug 2000 15:24:49 EDT
From: Tspwehrung@aol.com
Subject: Re: Learning curve of compudobby
My compudobby just arrived and I am excited to use it however I am in the process of trying to get ready for two shows and need to weave daily. If I install the compudobby am I going to be able to start weaving right away or is there a learning curve? Does it take time to make adjustments etc.?

Thanks
Sally

Date: Sun, 13 Aug 2000 17:30:19 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: Learning curve of compudobby
>install the compudobby am I going to be able to start weaving right away or >is there a learning curve?

Hoo, boy! There are so many factors to consider that it's hard to know how to answer. What is your electronic dobby (<gg> thanks for the reminder, Ingrid, that we mustn't trample on AVL's intellectual property) replacing? A mechanical dobby? If so, your learning curve will probably be pretty

## WeaveTech Archive 0008

short. But if you're putting an electronic dobby on a std floor loom, it might take you a while to get all the kinks out. I know two people who added computers to Macombers, for example. One loom has never functioned properly w/ its computer assist, and the other required weeks (maybe months) of tinkering and phoning back \& forth to the manufacturer.

Next, if you're adding the electronic dobby to a previously non-dobby loom (that is, not just switching from mechanical dobby), have you been using computer design software? If yes, does it have a driver for your new setup, or are you going to have to learn new software. Or if you've never designed on the computer at all, you probably need to count on a couple of weeks to learn how to do it.

I guess I'd say that if you're switching from mechanical dobby to electronic, go for it. You're already busy, and the switch will save you all that time pegging. Anything else? You might be better waiting till you're through your busy season.

Ruth

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rsblau@cpcug.org
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Arlington, VA USA

Date: Sun, 13 Aug 2000 17:19:40 -0700
From: "Stacy and Matt McMillan" [mmcmillan@sprynet.com](mailto:mmcmillan@sprynet.com)
Subject: AVL Looms for Rugs
Hi All,
I wanted to clarify AVL's position on rug weaving on an AVL: We do not position our "Production Dobby Looms" or our "Technical Dobby Looms" as being the proper tool for rug weaving, the biggest reason being, as Su pointed out, that our Automatic Warp Tension is great for not having to reset the tension each time you move your warp forward, but it won't lock down like is usually required for rug weaving. (This being said, you can put a locking brake only on the Small Frame Dobby or Modular Loom that will override the Automatic Warp Tension System and will be much better for rugs.)

You can add beater weights to a Production or a Technical Dobby Loom, to get a heavier beat, and you do add your own weight to the loom (since the benches are attached or anchor over the bottom crossmember of the loom), making it in fact a very stable loom. I'm sure you could weave the occasional rug on any AVL but we don't recommend it as a practice.

BUT, for optimal rugweaving, we recommend the AVL Professional Dobby Rug Loom, a totally different animal, with Air-Assisted Braking and Shedding, for extremely heavy tension and effortless raising of the 8 or 12 extra-heavy harnesses. The Dobby system is available for complex patterning (there's a Rug Compu-Dobby, too) and the Sliding Beater gives you a super-heavy beat.

We don't position our Production or Technical Dobby Looms as being all-purpose. They are much better for yardage. The Rug Loom is better for rugs.

Hope that helps!
Stacy McMillan
AVL Looms

## WeaveTech Archive 0008

Date: Sun, 13 Aug 2000 19:14:25 -0600
From: Bonnie Inouye [bonnieinouye@yahoo.com](mailto:bonnieinouye@yahoo.com)
Subject: long chains
Vincent asked about long repeats. Martha Hubbard spoke about hers, and there's a photo of a coat by Martha at the HGA site if you look for the Convergence 2000 fashion show page. My home page also has many examples of very long repeats. Both Martha and I include images sometimes, but not as a one-time picture as you might imagine. My dragonfly scarf, and the related yardage I did for the Carnegie show this summer, include images of dragonflies. The scarf repeats after 4 insects fly past (they are facing different directions and slightly different positions) and the yardage repeats after 8 insects. Each dragonfly takes quite a few bars, and alternates with a tabby. And this is a much smaller repeat, total, than the coffee cup scarves, which do not repeat at all for the entire length of the scarf. The steam curls up one side and down the other, so the ends are related. These are under "new work" on my home page. Please don't send questions to me about this now-- I leave in a few hours for 3 weeks and must unsub.
Bonnie Inouye
www.geocities.com/bonnieinouye

End of weavetech@topica.com digest, issue 351
From list-errors.700002588.0.701753111.004@boing.topica.com Tue Aug 15 06:20:28 2000
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8.7.3) with ESMTP id GAA13244 for [ralph@localhost](mailto:ralph@localhost); Tue, 15 Aug 2000 06:20:25 -0700

Received: from bas
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Received: from outmta007.topica.com (outmta007.topica.com [206.132.75.209]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA10396 for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Tue, 15 Aug 2000 03:33:46-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 352
Date: Tue, 15 Aug 2000 03:31:35 -0700
Message-ID: [0.0.1466474464-212058698-966335495@topica.com](mailto:0.0.1466474464-212058698-966335495@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
RE: my 2 cents....
By amurphy@cbcag.edu
RE: Fascinating old book
By amurphy@cbcag.edu
Re: trip to Colorado
By SandraHutton@cs.com
Re: avl troubles, electronic equipment and the ;old way" By SandraHutton@cs.com

# WeaveTech Archive 0008 

Re: Northern Laos<br>By SandraHutton@cs.com

Handwoven , S S\& D magazines, weavers journals
By darmul@netbistro.com
Re: other dobby looms
By carleton@mcn.org

Date: Mon, 14 Aug 2000 08:55:18 -0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
Subject: RE: my 2 cents....
Agrred, I just had someone look at little sample of baby blanket done in goose eye and say that's so complicated! Ho, ho, easy pattern to thread and easy to weave, the yarns made it special. and soft.
Like you I have only the 4 harnesses, one 45 inch and one 32 inch though I am atrying to figure out how to add four more harnesses to the smaller one as it was made to take them. Except it has not been made for many years and the custom harness prices I've seen are prohibitive! There are of course still many 4 harness patterns to weave! (I am more of a color/texture person than structure.)
Alice in MO

Date: Mon, 14 Aug 2000 09:22:18 -0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
Subject: RE: Fascinating old book
Try "shuttlecraft books", they do advertise in Handwoven. (Or do I dare suggest the used books market?)
Alice in MO

Date: Mon, 14 Aug 2000 11:03:14 EDT
From: SandraHutton@cs.com
Subject: Re: trip to Colorado
According to Jo Stiverson, president of the Rocky Mountain Weaver's Guild and chairperson of Convergence 2004, there are over 950 members of weavers guilds between Pueblo and Ft. Collins. Unfortunately, I don't believe any of them meet during the three summer months. Our More than Four group in Colorado Springs has its first meeting on Sept. 7 and the guild (Pikes Peak) meets on the 8th. You are welcome to attend either or both if you are in Colorado Springs at that time. You may call me at 719-488-3716.

You must visit Shuttles, Spindles, and Skeins while in Boulder. Also, there are a number of llama, alpaca, sheep, rabbit, etc., owners around. The Estes Park Wool Market is held each June. You might try to contact Chris Switzer to see if you could visit her ranch in Estes. Office number is 970-577-0775.

You also must visit the Bayeux Gallery, 1133 Bannock St. in Denver, (www.bayeuxgallery.com) which is hosting the American Tapestry Alliance Biennial Exhibition through September 3. The gallery is just a few blocks south of the Denver Art Museum which generally has textiles exhibited in the Neustetter Gallery on the 6th floor. Both the Bayeux and the DAM are closed on Mondays.

# WeaveTech Archive 0008 

Colorado is "weavers' Mecca" and we're gearing up for July 2004.
Sandy Hutton

Date: Mon, 14 Aug 2000 11:10:01 EDT
From: SandraHutton@cs.com
Subject: Re: avl troubles, electronic equipment and the ;old way"
I have just assembled the Louet Megado. It went together perfectly, I attached my laptop with WeaveMaker One to it, and my computer interfaced loom raised and lowered the correct shafts on the first go. I was pleasantly surprised. A friend received her Megado at the same time and she's off and running with Fiberworks PCW. Both of us have been most pleased.

Sandy Hutton
$\qquad$
Date: Mon, 14 Aug 2000 11:26:35 EDT
From: SandraHutton@cs.com
Subject: Re: Northern Laos
Doramay Keasbey's "Pattern Devices.." also explains how this loom works.
Sandy Hutton

Date: Mon, 14 Aug 2000 16:33:22-0700
From: "Darlene Mulholland" [darmul@netbistro.com](mailto:darmul@netbistro.com)
Subject: Handwoven , S S\& D magazines, weavers journals
The new librarian for the Prince George Weavers and Spinners Guild is = trying to complete their sets of Handwoven, S S \& D, and Weavers Journal = magazines. In this endeavour I'm trying to help her locate some of the = missing issues. We have a 'lot' of extra copies of S S \& D as well as = Weaver Journal.

We would like to try and trade some of the issues we have duplicates of $=$ for some we are missing. We are looking for \# 55 and \#66 in S S \& D and = \#9, \#11, \#20 and \#25 in Weavers Journals. =20

In Handwoven we need. 1981, Vol. 2 we need \#1, and \#2
1985, Vol. 6 we need \#2 1986, Vol. 7 we need \#1, and \#2 1990, Vol. 11 we need \#2, and \#3 1991, Vol. 12 we need \#4 1992, Vol. 13 we need \#3 1997, Vol. 18 we need \#3

We do have a number of duplicates in Handwoven as well. I will have $a=$ list of Spin Off magazines later as well as the design collections put = out by Handwoven.

If anyone is interested in trading or filling in our missing numbers = please contact me for the much longer list of duplicates. The guild is = hoping to have complete years bound so we will remain as valuable = resources for guild members. Many thanks for any help you can give. $=09$
Darlene Mulholland
darmul@netbistro.com

## WeaveTech Archive 0008

Artisan Knitting Machine Dealer
www.pgmoneysaver.bc.ca/weaving/=20
---------------------------------
Date: Mon, 14 Aug 2000 07:36:37-0700
From: carleton@mcn.org
Subject: Re: other dobby looms
$>$
>I haven't heard of a double index dobby before. Can you point me to a
>reference?
>Dear Jane,
Double index dobbies or "Ideal Dobbies"were created mostly for power equipment. They were developed to increase the speed of multi shaft power looms. Basically each lag has two rows of pegs and two knives. Each shaft can then be controlled by two hooks and the corresponding two pegs. This allows for a shaft that will be up for two or more sheds to stay up and not travel down and back up again, thus elliminating warp wave at high speeds. Warp wave is when a warp is both up and down in the same shed and describes a wave like form from the front to the back of the loom.

All this really doesn't mean much to a hand weaver but the Double Index is an ideal machine for block weaves. When two ground harness are slung independent of the dobbie head then it is possible to ride on one lag for as many picks as necessary to form the block. One design block one dobbie lag.
>Jane Eisenstein
$>$
$>$
$>$ T O P I C A The Email You Want. http://www.topica.com/t/16
>Newsletters, Tips and Discussions on Your Favorite Topics
$\qquad$

End of weavetech@topica.com digest, issue 352
From list-errors.700002588.0.701753111.004@boing.topica.com Wed Aug 16 06:34:35 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
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8.7.3) with ESMTP id GAA17751 for [ralph@localhost](mailto:ralph@localhost); Wed, 16 Aug 2000 06:34:32 -0700

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by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA20816
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Wed, 16 Aug 2000 03:32:12 -0700 (MST)
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To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 353
Date: Wed, 16 Aug 2000 03:31:31 -0700
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X-Topica-Loop: 0
Status: R
-- Topica Digest --

## WeaveTech Archive 0008

Sectional Beam -- where to?
By penny_peters@hotmail.com
Re: Sectional Beam -- where to?
By isidro@bbn.com
Re: Sectional Beam -- where to?
By aafannin@syr.edu
Re: Sectional Beam -- where to?
By aafannin@syr.edu
Re: Sectional Beam -- where to?
By rsblau@cpcug.org

Date: Tue, 15 Aug 2000 08:00:26 -0700
From: "Penny Peters" [penny_peters@hotmail.com](mailto:penny_peters@hotmail.com)
Subject: Sectional Beam -- where to?
I recently received a sectional beam and am puzzling as to which position to install it, upper or lower. Any thoughts? The other beam is plain. Thanks, Penny
*********************************
Penny Peters, Berkeley, CA
penny_peters@hotmail.com
-------------------------------

Date: 15 Aug 2000 11:08:26-0400
From: isidro@bbn. com (Isidro M. Castineyra)
Subject: Re: Sectional Beam -- where to?
Depends on the loom and the beam. For example, in an AVL technical dobby loom a 1-yard sectional beam will only fit in the upper position.

Isidro

Date: Tue, 15 Aug 2000 11:23:02 -0400
From: Allen Fannin [aafannin@syr.edu](mailto:aafannin@syr.edu)
Subject: Re: Sectional Beam -- where to?
At 08:00 AM 8/15/00 -0700, penny_peters@hotmail.com
wrote:
>I recently received a sectional beam and am puzzling as to which >position to install it, upper or lower.

Because a section beam on a handloom is used not only to weave off a warp but to beam the warp as well on loom, the position of the beam needs to be such that it will function properly with whatever warp section system you have or will have to beam on the tensioned sections.

You should take careful measurements and perhaps make a few simple mechanical drawings of the proposed set-up so you can be sure you've carefully considered all parameters. This may help you avoid do something that would negatively affect your ease or working at a later point.

# WeaveTech Archive 0008 

AAF<br>ALLEN FANNIN, Adjunct Prof., Textile Science<br>Department of Retail Management \& Design Technology<br>224 Slocum Hall Rm 215<br>College for Human Develpment<br>Syracuse University<br>Syracuse, New York 13244-1250<br>Phone: (315) 443-1256/4635<br>FAX: (315) 443-2562<br>$-5300$<br>mailto:aafannin@syr.edu> http://syllabus.syr.edu/TEX/aafannin

Date: Tue, 15 Aug 2000 11:44:28-0400
From: Allen Fannin [aafannin@syr.edu](mailto:aafannin@syr.edu)
Subject: Re: Sectional Beam -- where to?
At 08:08 AM 8/15/00 -0700, "Isidro M. Castineyra" [isidro@bbn.com](mailto:isidro@bbn.com) wrote:
>For example, in an AVL technical
>dobby loom a 1-yard sectional beam will only fit in the upper >position.

For that handloom and for most others, the upper position will most likely be the correct one, although I would again advise considering all the parameters of the entire set-up first.

AAF
ALLEN FANNIN, Adjunct Prof., Textile Science
Department of Retail Management \& Design Technology
224 Slocum Hall Rm 215
College for Human Develpment
Syracuse University
Syracuse, New York 13244-1250
Phone: (315) 443-1256/4635
FAX: (315) 443-2562
-5300
mailto:aafannin@syr.edu>
http://syllabus.syr.edu/TEX/aafannin

Date: Tue, 15 Aug 2000 14:49:47 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: Sectional Beam -- where to?
Congrats, Penny! You've gotten your new sectional beam. Others have given reasons why it should be on top (easier to wind the warp), or why it must be on top (the only place it fits). My reason for putting it on top is different--I just love looking at a beautifully wound sectional warp as I weave. I mentioned this once before on the list, and someone (who shall be unnamed) wrote to me privately, saying word to this effect: "I thought I was the only one who felt that way. I was too embarrassed to say it!" Most recently, I had a multicolor (I think about 8 or 9 colors) chenille warp on the sectional. That was pure eye candy as I wove.

Ruth
rsblau@cpcug.org

# WeaveTech Archive 0008 

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Arlington, VA USA
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End of weavetech@topica.com digest, issue 353
From list-errors.700002588.0.701753111.004@boing.topica.com Thu Aug 17 06:45:30 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
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        for <ralph@cs.arizona.edu>; Thu, 17 Aug 2000 03:38:01 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 354
Date: Thu, 17 Aug 2000 03:31:24 -0700
Message-ID: <0.0.666408713-212058698-966508284@topica.com>
X-Topica-Loop: 0
Status: R
-- Topica Digest --
    Re: Digest for weavetech@topica.com, issue 353
    By hubbard182@worldnet.att.net
    thread count
    By kdanielson@NICKEL.LAURENTIAN.CA
Science Times
By rsblau@cpcug.org
Re: sectional beam position
By tnewman@midcoast.com.au
Re: thread count
By janee@softweave.com
Date: Wed, 16 Aug 2000 08:18:56 -0400
From: "Jeffrey D. \& Martha H. Hubbard" <hubbard182@worldnet.att.net>
Subject: Re: Digest for weavetech@topica.com, issue 353
My reason for putting it on top is different--I just love looking at a beautifully wound sectional warp as I weave. I mentioned this once before on the list, and someone (who shall be unnamed) wrote to me privately, saying word to this effect: "I thought I
> was the only one who felt that way. I was too embarrassed to say it!"
Ruth,
You are by NO means alone in this! I've often thought the view from my bench through to the back of the loom would make a great painting. I'm not into painting, but perhaps I'll do it as a tapestry sometime! Hmm. Martha
```


## WeaveTech Archive 0008

Date: Wed, 16 Aug 2000 10:34:32 -0500
From: "Karen Danielson" [kdanielson@nickel.laurentian.ca](mailto:kdanielson@nickel.laurentian.ca)
Subject: thread count
In Women's work, Barber writes that "we have Egyptian linens with up to two hundred threads per inch, finer than the finest handkerchief you can buy nowadays. ... (A fine percale sheet today is usually one hundred threads per inch.) Typically, we read that sheets for sale today have a 180 or 200 thread count. Does this mean that the manufacturer is counting both warp and weft threads to get to such a number? I would like to know what it means to quote Barber on this point.
Any comments are appreciated.
Patricia Townsend adds:
Here is a different quote on the same subject: "...it is no speculation at all that by 2500 B.C. the Egyptians were weaving fabrics so fine that they have rarely been equaled. An Egyptian mummy from this period was wrapped in a cloth which counted 540 warp threads to the inch. The best comparable British fabrics today run about 350 warp threads to the inch."---The Encyclopedia of Textiles Second Edition 1972 by the editors of American Fabrics Magazine, "The History of Textiles".
I was so amazed by this I happened to ask Nancy Hoskins about it. She is a well-known weaver and scholar of Egyptian textiles who was teaching a great class at Convergence 2000 on "The Tut Textiles." She was quick to caution that one should not rely on these sources to be accurate!

Can anyone on this list help to clarify these points? Thanks.

Date: Wed, 16 Aug 2000 13:25:40 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Science Times
I'm not particularly scientific-minded, but one of my favorites sections of the NY Times is its weekly Tuesday "Science Times" section. This week, the lead article is "The Secrets of Croesus' Gold," on excavations around the site of Sardis in ancient Lydia (now eastern Turkey).

Much of the article focuses on the search both for Croesus' treasure and for more infomation about how the Lydians were able to refine both gold and silver so successfully. In a paragraph mainly devoted to the frustrations of the archeologists at this site (they keep being side-tracked by Greek \& Roman ruins before they get to the level of the Lydian ruins), the following information appears:
"Despite the disappointments, the expedition has scored enough tantalizing discoveries to keep coming back year after year. One find, the room s of a Lydian house, were being investigated this summer. The house, lying underneath Roman ruins, probably collapsed in the destruction of the city by the Persians. Among the broken pottery, glass and loom weights, a human skeleton lay on the packed dirt floor. In the kitchen were carbonized garlic and chick peas, evidence that fire swept vanquished Sardis."

Foget the gold, guys! Tell us more about the loom weights! And think of that skeleton: perhaps an ancient Lydian, desperately trying to save herself and her precious cloth from the rapidly encroaching fire.

Anyhow, an interesting article \& worth a few minutes of your time (on the net at www.nytimes.com).

# WeaveTech Archive 0008 

## Ruth

```
rsblau@cpcug.org
```

Arlington, VA USA

Date: Thu, 17 Aug 2000 11:09:22 +1000
From: "Trudy Newman" [tnewman@midcoast.com.au](mailto:tnewman@midcoast.com.au)
Subject: Re: sectional beam position

- I like it on top too, where it can be seen easily, and also because it easier for me to physically warp it in the upper position.
trudy
Trudy Newman
27 Allunga Ave PORT MACQUARIE NSW 2444
AUSTRALIA. Ph/fax:(02) 65822722
tnewman@midcoast.com.au
Mobile: 0427543127

Date: Wed, 16 Aug 2000 21:38:51 -0400
From: Jane Eisenstein [janee@softweave.com](mailto:janee@softweave.com)
Subject: Re: thread count
>In Women's work, Barber writes that "we have Egyptian linens with up to two >hundred threads per inch, finer than the finest handkerchief you can buy >nowadays. ...(A fine percale sheet today is usually one hundred threads per >inch.) Typically, we read that sheets for sale today have a 180 or 200 >thread count. Does this mean that the manufacturer is counting both warp >and weft threads to get to such a number? I would like to know what it >means to quote Barber on this point.
>Any comments are appreciated.
I was taught that indeed a thread count is the sum of the epi and ppi.

## End of weavetech@topica.com digest, issue 354

From list-errors.700002588.0.701753111.004@boing.topica.com Fri Aug 18 06:57:43 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
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8.7.3) with ESMTP id GAA01228 for [ralph@localhost](mailto:ralph@localhost); Fri, 18 Aug 2000 06:57:39-0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Fri, 18 Aug 2000 06:57:40 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5]) by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA10001 for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Fri, 18 Aug 2000 03:33:35-0700 (MST)
Received: from outmta013.topica.com (outmta013.topica.com [206.132.75.230]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA03374 for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Fri, 18 Aug 2000 03:33:24-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 355
Date: Fri, 18 Aug 2000 03:31:19-0700
Message-ID: [0.0.613008913-951758591-966594679@topica.com](mailto:0.0.613008913-951758591-966594679@topica.com)
X-Topica-Loop: 0

## WeaveTech Archive 0008

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Status: R
-- Topica Digest --
    thread count
    By peter@plysplit.demon.co.uk
    W: Ashenhurst's Formula
    By ecberry@ComCAT.COM
Heritage Looms
By rsblau@cpcug.org
Re: W: Ashenhurst's Formula
By rsblau@cpcug.org
Re: Heritage Looms
By wheat@craftwolf.com
Re: Orgnic Cotton
By RUSLYN@aol.com
Ashenhurst and sett
By bnjkelly@theriver.com
Re: Heritage Looms
By xlntthreadz@aol.com
RE: Ashenhurst's Formula
By judie@eatough.net
Re: Ashenhurst and sett
By willgee@mindspring.com
```

Date: Thu, 17 Aug 2000 14:34:29 +0100
From: peter collingwood [peter@plysplit.demon.co.uk](mailto:peter@plysplit.demon.co.uk)
Subject: thread count
Flinders Petrie in 'Arts and Crafts of Ancient Egypt' mentions the mummy wrappings from the tomb of King Zer, describibg them thus- "the threads are very uniform, and there are 160 to the inch in the warp and 120 in the woof. Modern cambric has 140 threads to the inch".

Some other statistics are also remarkable; e.g. some Egyptian cloths were up to five foot wide and up to 60 foot long.

Peter Collingwood

Date: Thu, 17 Aug 2000 09:52:52-0400
From: "evelyn" [ecberry@ComCAT.COM](mailto:ecberry@ComCAT.COM)
Cc: "W:" [weaving@quilt.net](mailto:weaving@quilt.net)
Subject: W: Ashenhurst's Formula
Hi All: I'm samplying a twill structure for upholestry fabric using 8/2 wool for the warp and 16/2 linen for the weft. The wool wraps 24 ends to the inch. In using Ashenhurst's formula for determing the sett, the number of shafts is not a consideration. All other things being equal, wouldn't more shafts call for a closer sett , i.e., 8 shafts rather than 4 or 12 shafts rather than 8 , etc.?

## WeaveTech Archive 0008

Just curious.....any thoughts?
Thanks
Ev Berry
--------------------------------
Date: Thu, 17 Aug 2000 12:27:23-0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Heritage Looms
Does anyone know if Heritage Looms of Alvin, Texas, is still in business? They weren't at the Maryland Sheep \& Wool Festival this year (they usually are), and when I tried to phone today, I got no answer.

Ruth
rsblau@cpcug.org
Arlington, VA USA
$\qquad$
$\qquad$
Date: Thu, 17 Aug 2000 12:33:29-0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: W: Ashenhurst's Formula
>All other things
>being equal, wouldn't more shafts call for a closer sett
I've certainly never heard of sett being affected by the number of shafts.
Ruth
rsblau@cpcug.org
Arlington, VA USA
$\qquad$
Date: Thu, 17 Aug 2000 12:43:53-0400
From: Wheat Carr [wheat@craftwolf.com](mailto:wheat@craftwolf.com)
Subject: Re: Heritage Looms
At 09:38 8/17/2000-0700, you wrote:
>Does anyone know if Heritage Looms of Alvin, Texas, is still in business?
No, they are not involved in the fiber world at the moment.
Wheat

Date: Thu, 17 Aug 2000 16:19:39 EDT
From: RUSLYN@aol.com
Subject: Re: Orgnic Cotton
I received the following from Joan Ruane of Bisbee, Arizona. It was sent to her by Conne Graham, of Studio Three. It would be nice to send on some comments to OTA. Thanks. Lynn Silberschlag, Tucson, AZ, ruslyn@aol.com

## WeaveTech Archive 0008

<<

Several years ago we were able to rally support for Sally Fox and Natural Cotton Colors Inc. as part of an extensive e-mail, fax and snail mail campaign. Sally truly appreciated all the help that came their way!

Your input is desperately needed again.
The Organic Fiber Council (OFC) a part of the Organic Trade Association (OTA) is considering allowing organic textiles to be dyed with synthetic dyes and labeling those textiles as certified organic. Natural Cotton Colors, Inc. among others, wants to avoid undermining the credibility of the words "certified organic" by suggesting that should synthetic dyes be used on organic textiles, that those additives be labeled as such.

The OFC steering committee is in the process of making this decision and are now taking suggestions and comments from the public on the issue. Please let them know what your opinion is very quickly. Our window of opportunity is only a few weeks.

Comments can be sent to:
OTA's Organic Fiber Council
Sandra Marquardt Project Coordinator
5801 Sierra Ave.
Richmond, CA 94805
Telephone (510) 215-8841
Fax 510-215-7253
E Mail : ofc@igc.org
If you wish to review the proposed draft you may go the OTA's web site at www.ota.com

It is listed under the Organic Trade Association's North America Draft of Organic Fiber Standards: Post Harvest Handling Processing, Labeling, Auditing. Draft 2: January 1, 2000.

The section that we are most concerned about is Section 6.9 Dyeing and Wet Finishing.

The OTA has some suggested writing tips:

1. Submit mail and fax documents on plain white $8.5 \times 11$ paper. Typed in standard font. Mailed documents should be single sided. Faxed documents should not include a cover page.
2. State that you support comments of the Organic Trade Association and Organic Fiber Council.
3. Mention your interest or expertise with organic fibers.
4. State why you are against the addition of synthetic dyes to organic fibers unless labeled as an additive.

Thank you for taking the time to address this very important issue.
Sincerely, Conne Graham
Studio Three>>

Date: Fri, 18-Aug-2000 01:35:58 GMT
From: Jacquie Kelly [bnjkelly@theriver.com](mailto:bnjkelly@theriver.com)
Subject: Ashenhurst and sett
The question of when to use more shafts is not directly connected to the sett as determined by Ashenhurst's formula. But, "all other things being equal", a closer sett often calls for more shafts.

Think about tabby at 40 epi threaded on 2 shafts ( 20 heddles/in) compared with the same 40 threads on 4 or 8 shafts. There is less crowding of heddles and easier movement of ends as you weave.

# WeaveTech Archive 0008 

Jacquie Kelly
car weaver

Date: Thu, 17 Aug 2000 21:46:25 EDT
From: XlntThreadz@aol.com
Subject: Re: Heritage Looms
Heritage Looms, alas, is no more. Rats!! I've been drooling over one of their multiharness narrow floor looms for ages, but he already wasn't making them in '98.

Jan M ; ) [] \#\#\#\#\#\#\#\#\#\#\# who's winkin' \& weavin' at [xlntthreadz@aol.com](mailto:xlntthreadz@aol.com)

Date: Thu, 17 Aug 2000 21:34:50 -0600
From: "Judie Eatough" [judie@eatough.net](mailto:judie@eatough.net)
Subject: RE: Ashenhurst's Formula
The place where the number of shafts would be a consideration in the sett formulas would be in the number of ends in one repeat and the number of intersections in one repeat. If you have more shafts, it is possible to have more ends in a repeat and fewer intersections. So the sett would be closer.

But if you weave $2 / 2$ twill or plain weave, it does not matter how many shafts you use.

Judie
---------------------------------
Date: Thu, 17 Aug 2000 21:28:23 -0700
From: glen black [willgee@mindspring.com](mailto:willgee@mindspring.com)
Subject: Re: Ashenhurst and sett
Hi..I believe that density of sett is related to the number of warp/weft intersections. ie; plain weave has more intersections: 1 up 1 down than a 3 up 2 down 4up 1 down twill would have, therefore one would or could at least, set the twill closer. Having more harnesses enables more elaborate twills and allows them to rise and fall more easily when the sett is dense. glen b
--
Glen's Multifarious Page
http://sites.netscape.net/willgeewillgee/homepage

End of weavetech@topica.com digest, issue 355
From list-errors.700002588.0.701753111.004@boing.topica.com Fri Aug 18 16:53:02 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
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8.7.3) with ESMTP id QAA02195 for [ralph@localhost](mailto:ralph@localhost); Fri, 18 Aug 2000 16:52:58 -0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Fri, 18 Aug 2000 16:52:59 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5]) by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id QAA29920 for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Fri, 18 Aug 2000 16:28:34 -0700 (MST)

## WeaveTech Archive 0008

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Received: from outmta011.topica.com (outmta011.topica.com [206.132.75.228])
    by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id QAA13328
    for <ralph@cs.arizona.edu>; Fri, 18 Aug 2000 16:28:28 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 356
Date: Fri, 18 Aug 2000 16:27:52 -0700
Message-ID: <0.0.983184654-951758591-966641272@topica.com>
X-Topica-Loop: 0
Status: R
-- Topica Digest --
    list
    By lrc@apk.net
    size of egyptian fabric
    By pmarriot@telusplanet.net
    twill set
    By ingrid@fiberworks-pcw.com
    SU ON-LINE TEXTILE COURSES
    By aafannin@syr.edu
    Re: Ashenhurst Formula/maximum sett
    By LDMADDEN@aol.com
    Little Loom photos at last!
    By jimleslie@elroynet.com
    on-line jacquard course
    By weevings@juno.com
    Pick Glass
    By yapeters@concentric.net
    Re: Pick Glass
    By wheat@craftwolf.com
    Re: Pick Glass
    By rsblau@cpcug.org
```

Date: Fri, 18 Aug 2000 09:31:44 -0400
From: lois csontos [lrc@apk.net](mailto:lrc@apk.net)
Subject: list
unsubscribe digest
--------------------------------
Date: Fri, 18 Aug 2000 07:43:26 -0600
From: "Pamela Marriott" [pmarriot@telusplanet.net](mailto:pmarriot@telusplanet.net)
Subject: size of egyptian fabric
>five foot wide and up to 60 foot long.
without a seam? WOW!
Pamela
Pamela Marriott

# WeaveTech Archive 0008 

Dancing Sheep Studio
Weaving \& Graphics
Swan Hills, Alberta, Canada
pmarriot@telusplanet.net
Are You in the Book?
http://www.youdraw.com
Humanity at Human Proportions

Date: Fri, 18 Aug 2000 10:01:25 -0400
From: Ingrid Boesel [ingrid@fiberworks-pcw.com](mailto:ingrid@fiberworks-pcw.com)
Subject: twill set
Hi Ev:
The set would depend on the number of intersections in a repeat.
Twills that are $3 / 5$ and therefore have only 2 breaks would have to be set much closer than twills with more breaks. For instance a six break twill such as $3 / 1 / 1 / 1 / 1 / 1$ where there are lots on intersections per repeat would be set much looser, ore like plain weave.

Ingrid
Ingrid Boesel, the weaving half of Fiberworks PCW Visit us at: http://www.fiberworks-pcw.com

Email: ingrid@fiberworks-pcw.com

Date: Fri, 18 Aug 2000 11:22:42-0400
From: Allen Fannin [aafannin@syr.edu](mailto:aafannin@syr.edu)
Subject: SU ON-LINE TEXTILE COURSES
TO ALL:
Following the completion of a very successful summer of on-line courses, Syracuse University - University College will again be offering two on-line textile courses: Textile Ergonomics and Woven Jacquard Design Technology.

For further information, course numbers are as follows:
Textile Ergonomics - NCC 007 - U080
Ref. \#20685
Woven Jacquard Design Technology - NCC 009 - U080 Ref. \#20688

These two courses are being offered as non-credit but may be taken for credit with prior arrangements.

For registration information call Julie Neri or Allison Vincent at (315) 443 - 4165. To view the course outlines, go to www.SUCE.syr.edu/online.

Anyone is also free to contact me directly with questions or to gain access to prior students.

The Textile Ergonomics course has resulted in every student so far reporting significant improvements in their yarn handling skills and an equally significant reduction in bodily damage from muscular strains.

Kind regards and thanks.

# WeaveTech Archive 0008 

ALLEN FANNIN, Adjunct Prof., Textile Science<br>Department of Retail Management \& Design Technology<br>224 Slocum Hall Rm 215<br>College for Human Develpment<br>Syracuse University<br>Syracuse, New York 13244-1250<br>Phone: (315) 443-1256/4635<br>FAX: (315) 443-2562<br>$-5300$<br>mailto:aafannin@syr.edu><br>http://syllabus.syr.edu/TEX/aafannin

Date: Fri, 18 Aug 2000 14:22:19 EDT
From: LDMADDEN@aol.com
Subject: Re: Ashenhurst Formula/maximum sett
I have just started using this formula and had been following Peggy Osterkamp's books. What I did neglect to do that she talks about is after you find the maximum sett from Ashenhurst, she then takes a percentage of that number based on the intended use of the fabric. Therefore upholstery is multiplied by 90\%, "production weaving" at $80 \%$ and so on down to delicate fabrics for shawls at 50-60\%.

I used the maximum on some linen lace weaves and had a mess. The shed was very poor and I was thinking mechanical problems with the loom when it was just the wrong shed for the yarn and structure I was using.

## Linda Madden

still relearning all the old lessons and some new ones
$\qquad$

Date: Fri, 18 Aug 2000 13:29:50 -0500
From: "jimleslie" [jimleslie@elroynet.com](mailto:jimleslie@elroynet.com)
Subject: Little Loom photos at last!
Finally found a way to post photos where you can see them fairly clearly. They are at a site called Ofoto, and the address is:
http://www.ofoto.com/I.jsp?m=4677436403\&n=704824122
Email me off list if you have questions or comments.
Other weaving activities.... I bought a bunch of natural colored rug wool and have been having a good time dyeing it. Have to get it on the loom soon, since my weaving building is only heated by a wood stove, and I think winter may be coming early this year! This may be the season for my "bulky yarn" weaving projects, and I'll spend the winter dreaming of more delicate items for spring.
Leslie
jimleslie@elroynet.com

Date: Fri, 18 Aug 2000 14:52:08 -0400
From: Bonni Backe [weevings@juno.com](mailto:weevings@juno.com)
Subject: on-line jacquard course
Allen, I've been to the Syracuse University website, trying to find the details about the jacquard design course being offered on-line, but with

## WeaveTech Archive 0008

no success. Can you tell me where to look, or post the salient details here?

Thanks, Bonni in Jersey City, NJ, soon to be living in NH, doing smallscale jacquard design for woven labels (very big smile) Weevings Miniature Handwovens http://weevings.com

Date: Fri, 18 Aug 2000 13:34:19 -0400
From: "Sue Peters" [yapeters@concentric.net](mailto:yapeters@concentric.net)
Subject: Pick Glass
Does anyone know the source for a pick glass?
Sue Peters near the Saginaw Bay
[yapeters@concentric.net](mailto:yapeters@concentric.net)

Date: Fri, 18 Aug 2000 17:06:10 -0400
From: Wheat Carr [wheat@craftwolf.com](mailto:wheat@craftwolf.com)
Subject: Re: Pick Glass
At 13:18 8/18/2000 -0700, you wrote:
>Does anyone know the source for a pick glass?
$>$
$>$
if by pick glass you mean something also known as linen tester, used to magnify a section of a fabric so you can could the epi/ppi, then American Science \& Surplus is usually a good choice and they usually have several sizes.

Date: Fri, 18 Aug 2000 17:43:39 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: Pick Glass
You might also try graphics supply shops. People who work w/ paper (graphic designers \& other publications people) use them to get a good, closeup look at paper.

## Ruth

rsblau@cpcug.org
Arlington, VA USA
$\qquad$

End of weavetech@topica.com digest, issue 356
From list-errors.700002588.0.701753111.004@boing.topica.com Sat Aug 19 06:48:24 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id GAA02551 for [ralph@localhost](mailto:ralph@localhost); Sat, 19 Aug 2000 06:48:21-0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Sat, 19 Aug 2000 06:48:22 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])

## WeaveTech Archive 0008

by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA18143
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Sat, 19 Aug 2000 03:32:48-0700 (MST)
Received: from outmta016.topica.com (outmta016.topica.com [206.132.75.233])
by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA20342
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Sat, 19 Aug 2000 03:32:46-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 357
Date: Sat, 19 Aug 2000 03:31:16 -0700
Message-ID: [0.0.595375878-212058698-966681076@topica.com](mailto:0.0.595375878-212058698-966681076@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
Re: Pick Glass and another idea
By jstoll@cpcug.org
Pick Glass
By ingrid@fiberworks-pcw.com
Re: Pick Glass
By teresaruch@msn.com
pick glass
By carfer@worldnet.att.net
Re: Pick Glass and another idea
By xlntthreadz@aol.com
Re:Ashenhurst formulas
By laurafry@netbistro.com

Date: Fri, 18 Aug 2000 19:27:45 -0400
From: Janet Stollnitz [jstoll@cpcug.org](mailto:jstoll@cpcug.org)
Subject: Re: Pick Glass and another idea
Another source for a pick glass might be a shop that sells supplies for stamp collectors. My father-in-law who was an avid collector had several including one that came with a light.

A friend and I discovered that we could scan a piece of handwoven fabric, select a section, zoom in on it (enlarge the scale) and "voila"--we could count the threads and see the interlacements. This is no replacement for the pick glass to view textiles on the loom or at a museum, but it sure is nice when available.
Janet Stollnitz $\quad$ jstoll@cpcug.org
Silver Spring, MD

Date: Fri, 18 Aug 2000 20:24:28-0400
From: Ingrid Boesel [ingrid@fiberworks-pcw.com](mailto:ingrid@fiberworks-pcw.com)
Subject: Pick Glass
Hi Sue
How about trying Edmunds Scientific But I don't remember what they call
it. The good ones are Bausch and Laum

## WeaveTech Archive 0008

Also outdoor stores sometimes sell them as avalanche testers or snow testers or ice testers, something like that.

Ask at Textura Trading and see if Magda carries them, or if she will look for a source.
Ingrid
Ingrid Boesel, the weaving half of Fiberworks PCW
Visit us at: http://www.fiberworks-pcw.com
Email: ingrid@fiberworks-pcw.com

Date: Fri, 18 Aug 2000 18:17:28 -0700
From: "teresaruch" [teresaruch@email.msn.com](mailto:teresaruch@email.msn.com)
Subject: Re: Pick Glass
In Portland OR. I find them at the camera stores, the knife stores/cutlery stores (probably in mail order cuttlery cats.) Saw them at the
Embellishements show and the Button and Bead show if any are in your area.
If you can't find them contact me off line and I'll help you. Teresa
----- Original Message -----
From: Sue Peters [yapeters@concentric.net](mailto:yapeters@concentric.net)
To: [weavetech@topica.com](mailto:weavetech@topica.com)
Sent: Friday, August 18, 2000 1:18 PM
Subject: Pick Glass
> Does anyone know the source for a pick glass?
$>$
> Sue Peters near the Saginaw Bay
> [yapeters@concentric.net](mailto:yapeters@concentric.net)
$>$
> T O P I C A The Email You Want. http://www.topica.com/t/16
> Newsletters, Tips and Discussions on Your Favorite Topics
$>$
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Date: Sat, 19-Aug-2000 02:48:13 GMT
From: Pamela Carr [carfer@worldnet.att.net](mailto:carfer@worldnet.att.net)
Subject: pick glass
I got mine from Robin \& Russ.
carfer@worldnet.att.net
Bradenton, FL. USA

Date: Fri, 18 Aug 2000 22:56:30 EDT
From: XlntThreadz@aol.com
Subject: Re: Pick Glass and another idea
I find linen testers all the time at those scissor/knife/tweezer emporia in indoor flea markets.

Jan M ; ) [] \#\#\#\#\#\#\#\#\#\#\# who's winkin' \& weavin' at [xlntthreadz@aol.com](mailto:xlntthreadz@aol.com)
$\qquad$

Date: Fri, 18 Aug 2000 18:01:45 -0700
From: Laura Fry [laurafry@netbistro.com](mailto:laurafry@netbistro.com)

## WeaveTech Archive 0008

Subject: Re:Ashenhurst formulas
If memory serves, I believe the Ashenhurst formulas are *maximum* set formulas and must be reduced depending upon the drape/handle desired and fibre involved.

Interestingly, I find that recommended sets given in older books are too "tight" for my preferences. Maybe there are generational factors at work? There seem to be cultural preferences as Stephen Simpson from England said that they had to reduce the set on their men's suitings for the North American market as opposed to the British market.....

## Laura Fry

in the running for title of Procrastination Queen with 15 yards of two shuttle weaving to do and no enthusiasm for it......
http://laurafry.com

End of weavetech@topica.com digest, issue 357
From list-errors.700002588.0.701753111.004@boing.topica.com Sun Aug 20 06:43:05 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id GAA03625 for [ralph@localhost](mailto:ralph@localhost); Sun, 20 Aug 2000 06:43:04 -0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Sun, 20 Aug 2000 06:43:04 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5]) by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA15038 for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Sun, 20 Aug 2000 03:31:33 -0700 (MST)
Received: from outmta002.topica.com (outmta002.topica.com [206.132.75.237])
by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA01245
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Sun, 20 Aug 2000 03:31:31-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 358
Date: Sun, 20 Aug 2000 03:30:52 -0700
Message-ID: [0.0.864528513-212058698-966767452@topica.com](mailto:0.0.864528513-212058698-966767452@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
RE: Heritage Looms
By jcplante3@juno.com
Installing Sectional on AVL
By penny_peters@hotmail.com

Date: Sat, 19-Aug-2000 21:31:35 GMT
From: Jane Plante [jcplante3@juno.com](mailto:jcplante3@juno.com)
Subject: RE: Heritage Looms
I have an 8 shaft loom-weaves 10 inches (I think) that I have decided to find a new home for. Don't know if we are allowed to do any selling in this group, but if so, and anyone is interested, let me know. I am new and enjoying this group very much so far.

## WeaveTech Archive 0008

Date: Sat, 19 Aug 2000 18:02:08 -0700
From: "Penny Peters" [penny_peters@hotmail.com](mailto:penny_peters@hotmail.com)
Subject: Installing Sectional on AVL
Hi All. Having heeded your advice, I have my new sectional in the top position and it is clearly where it should be both visually and ergonomically. Now I am trying to get the finishing touches on installing it. I have an old loom. I am not sure but I think maybe the frame has changed a little since this one was built. My problem is that I cannot get the cord on the tension and brake drum to fit. The eye for the spring is now located on the upper left cross beam. The cord and the spring are about 12-14 inches apart. I am stumped. Any one else have experience with this? I will work on getting the warping wheel put together while I am tryng to demystify this other problem. Many thanks, Penny

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Penny Peters, Berkeley, CA
penny_peters@hotmail.com

End of weavetech@topica.com digest, issue 358
From list-errors.700002588.0.701753111.004@boing.topica.com Mon Aug 21 06:44:50 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id GAA05428 for [ralph@localhost](mailto:ralph@localhost); Mon, 21 Aug 2000 06:44:38-0700

Received: from bas by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Mon, 21 Aug 2000 06:44:38 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5]) by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA20510 for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Mon, 21 Aug 2000 03:32:39-0700 (MST)
Received: from outmta014.topica.com (outmta014.topica.com [206.132.75.231]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA13811 for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Mon, 21 Aug 2000 03:32:14-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 359
Date: Mon, 21 Aug 2000 03:30:57 -0700
Message-ID: [0.0.1536292515-212058698-966853857@topica.com](mailto:0.0.1536292515-212058698-966853857@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
W-mixing fibers
By arwells@erols.com
Installing sectional on AVL
By ggroomes@carr.org
Re: Installing Sectional on AVL
By rsblau@cpcug.org
RE: XRX publications, i.e. WEAVERS mag
By jcplante3@juno.com
re Convergence AGAIN
By jcplante3@juno.com

# WeaveTech Archive 0008 

```
CW greatest hits
By snordling@excite.com
RE: CW greatest hits
By judie@eatough.net
Re: Pick Glass
By Mooreweave@aol.com
Re: Pick Glass
By Mooreweave@aol.com
```

Date: Sun, 20 Aug 2000 08:16:08 -0700
From: Anne Wells [arwells@erols.com](mailto:arwells@erols.com)
Subject: W-mixing fibers
I am weaving a set of scarves, which are to be worn as decorative scarves hanging straight down the front of each person. I am using 20/2 and $30 / 2$ wools as warp, and 20/3 wool as weft in an overshot structure. I haven't figured out the tabby yet, but for reasons of color, I am wondering about using a fine cotton (50/3 or 30/2). I don't think I've run across any weavings done this way, but seems to me that the cotton might add some needed "body" to the scarves, which I do not want to line. Lining is not a big deal to me, though, and I will line these for drape if required. I am doing a sample on some extra warp (wound for that purpose), but am not clear on the total effect this mixture of fibers might have on a 6 foot length of 10 " wide scarf.

Anyone have any ideas???
Thanks,
Anne in Annandale
arwells@erols.com

Date: Sun, 20 Aug 2000 07:57:00 -0700
From: "ggroomes" [ggroomes@carr.org](mailto:ggroomes@carr.org)
Subject: Installing sectional on AVL
I also had problems with this cord while installing it on a new AVL and sectional beam that came together. When I called AVL, they said my cord was too short and sent another one right away. All then went well.

Georgia Groomes
ggroomes@carr.org

Date: Sun, 20 Aug 2000 09:06:36 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: Installing Sectional on AVL
> My problem is that I cannot get
>the cord on the tension and brake drum to fit.
You may, as Georgia suggested, simply have too short a cord. However, if the setup is the same as on my loom, there are two things you can do before you call AVL: if you have the nylon cord with the little plastic thingie (technical terms here) that keeps it from slipping, loosen that as far as it goes. Second, raise the arm w/ the weight as far up as you can. These two things together give you the maximum length in attaching the drum cord

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to the spring. You do need to feel comfortable doing this, as you'll need to take this cord off \& put it back on every time you wind a warp on the sectional beam--at least that's the way they taught us at AVL--step one (after you've wound your spools, etc etc etc) is to unhook the drum cord so the beam turns freely.

Also: check to be sure you have wound the cord the correct direction around the drum. It'll be too short if you wind it the wrong way.

Ruth
rsblau@cpcug.org
Arlington, VA USA


Date: Sun, 20-Aug-2000 14:31:06 GMT
From: Jane Plante [jcplante3@juno.com](mailto:jcplante3@juno.com)
Subject: RE: XRX publications, i.e. WEAVERS mag
Hello
I origianlly asked for back issues and when told they were no longer available requested a refund. Never (Ithink) received it and wrote to them and of course, got no reply. Would like that e-mail address to try again please. I was just starting to understand some of the articles (a bit over my head) and was disappointed to see it fold. Sure hate to think they are stiffing people for their money. Thanks, Jane Patricia A Lawrence wrote:
$>$
$>$
> On Mon, 10 Jul 2000 12:12:49 -0700 Su Butler [apbutler@ync.net](mailto:apbutler@ync.net) writes:
\gg To everyone still waiting for XRX to honor their promise to fulfill
\gg your
\gg prepaid subscriptions with either magazines, index, or books, I
\gg strongly
$>$
$>$
> I requested Huck, which I got....but I'm still waiting for my request
$>$ for
> Thick \& Thin.....
> I've been dealing with someone named Monica via e-mail, if anyone wants
$>$ that addy contact me.
$>$
$>$ Pat
$>$
$>$
$>$
> YOU'RE PAYING TOO MUCH FOR THE INTERNET!
> Juno now offers FREE Internet Access!
> Try it today - there's no risk! For your FREE software, visit:
> http://dl.www.juno.com/get/tagj.

Date: Sun, 20-Aug-2000 15:17:10 GMT
From: Jane Plante [jcplante3@juno.com](mailto:jcplante3@juno.com)
Subject: re Convergence AGAIN
Hi
I'm new to the group and have spent too much time this morning reading everyone's evaluation of Convergence. I agree with most of the group's

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complaints and praises, but am wondering if I missed a printed evaluation in my packet. I think that would be an invaluable tool for the next group to do this huge project, but I wouldn't want to be on the committee to read all of them. Believe they could avoid some of the costs of feeding such a large group lousy food and pay the teachers more. Also I don't feel that a bottle of water, an apple and cheese crackers constitutes dinner..oh yes, I had some veggies, a small dessert and a handful of cheese goldfish (that's all that was left when I got to the last gallery) I have low blood sugar and my roommate has diabetes, so we were franic when we got back to our hotel. Also didn't like having to pay for something to drink at these galleries. Why does everyone have to make money?
Next time, I will make sure I have dinner on my own.
$\qquad$

Date: Sun, 20 Aug 2000 13:27:19-0700 (PDT)
From: Sara Nordling [snordling@excite.com](mailto:snordling@excite.com)
Subject: CW greatest hits
Before I left for Italy this summer I had ordered a copy of the Complex Weavers Greatest Hits book. Now, on returning home and balancing my checkbook I find that not only have I not seen the book, my check has not been cancelled and email to the person in charge bounces. Can anyone give me further information on whether or not the books have been sent?

Sara
snordling@excite.com

Say Bye to Slow Internet!
http://www.home.com/xinbox/signup.html
---------------------------------

Date: Sun, 20 Aug 2000 15:27:23 -0600
From: "Judie Eatough" [judie@eatough.net](mailto:judie@eatough.net)
Subject: RE: CW greatest hits
This is a multi-part message in MIME format.

```
------=_NextPart_000_0000_01C00ABB .235AF6E0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
```

Hi Sara,
The book is still in process. The September issue of the Complex Weavers Journal had to be finished first. <gg>

Wanda Shelp and I hope to finish soon. We really hope -- I want to weave again. I will post a message here when we start to mail them. Marjie Thompson has been keeping the list of orders.

Marjie Thompson marjie@ime.net
Judie Eatough judie@eatough.net
------=_NextPart_000_0000_01C00ABB.235AF6E0
Content-Type: application/ms-tnef;
name="winmail.dat"
Content-Transfer-Encoding: base64
Content-Disposition: attachment;

## WeaveTech Archive 0008

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## WeaveTech Archive 0008

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# WeaveTech Archive 0008 

AAAAAAMQPoAEIAYAAAAAAMAAAAAAAABGAAAAACaAAAAFAAAAF4AAADeAAAAWOgAAGYAAABiAAAAD EF6ABCAGAAAAAADAAAAAAAAARgAAAAAngAAAAwAAAICAAACQgAAAoIAAAB4AY4AEIAYAAAAAAMAA AAAAAABGAAAAAA6AAAABAAAAAQAAAAAAAAAeAGSABCAGAAAAAADAAAAAAAAARgAAAAAQgAAAAQAA AAEAAAAAAAAACwBwgAggBgAAAAAAwAAAAAAAAEYAAAAABoUAAAAAAAADAHGACCAGAAAAAADAAAAA AAAARgAAAAABhQAAAAAAAEAAc4AIIAYAAAAAAMAAAAAAAABGAAAAAGCFAAAA2F6s0gAAAB4APQAB AAAAAQAAAAAAAAAeAAIOAQAAAAEAAAAAAAAAHgADDgEAAAABAAAAAAAAAB4ABA4BAAAAAQAAAAAA AAALABsOAAAAAB4AHQ4BAAAAEAAAAE1hcmppZSBUaG9tcHNvbgADAPQPAgAAAAMA9w8AAAAAAgH4 DwEAAAAQAAAAy2GpI01x0xGFHgCgzFS/2gIB+g8BAAAAEAAAAMthqSNNcdMRhR4AoMxUv9oCAfsP AQAAAIAAAAAAAAAAOKG7EAXlEBqhuwgAKypWwgAAUFNUUFJYLkRMTAAAAAAAAAAATklUQfm/uAEA qgA32W4AAABD0lxXSU450FxMb2NhbCBTZXR0aW5nc1xBcHBsaWNhdGlvbiBEYXRhXE1pY3Jvc29m dFxPdXRsb29rXG91dGxvb2sucHN0AAMA/g8FAAAAAwANNP03AAAuVgAAAAIBAjcBAAAAAAAAAAMA BTcFAAAAAwALN/////8DAPp/AAAAAEAA+38AQN2jV0WzDEAA/H8AQN2jV0WzDAMA/X8AAAAACwD+ fwAAAAADACEOBVkBAAIB+A8BAAAAEAAAAMthqSNNcdMRhR4AoMxUv9oCAfoPAQAAABAAAADLYakj TXHTEYUeAKDMVL/aAgH7DwEAAACAAAAAAAAAADihuxAF5RAaobsIACsqVsIAAFBTVFBSWC5ETEwA AAAAAAAAAE5JVEH5v7gBAKoAN9luAAAAQzpcV0l00ThcTG9jYWwgU2V0dGluZ3NcQXBwbGljYXRp b24gRGF0YVxNaWNyb3NvZnRcT3V0bG9va1xvdXRsb29rLnBzdAADAP4PBwAAAGTi

------=_NextPart_000_0000_01C00ABB .235AF6E0--

Date: Mon, 21 Aug 2000 01:47:18 EDT
From: Mooreweave@aol.com
Subject: Re: Pick Glass
These li

Date: Mon, 21 Aug 2000 01:55:18 EDT
From: Mooreweave@aol.com
Subject: Re: Pick Glass
I ordered a very small but wonderful pick glass from Barbara Setsu Pickett when she spoke at complex seminars in Portland, I believe. She purchased them from someplace in Italy, but seemed to know of other sources. This small one fits easily in my coin purse and I always have it with me. Don't know her email address.

My husband uses a similar gadget (called a loupe) for black and white photography, and bought his (and they have many varieties including one with a light) at B\&H photo online at www.bhphotovideo.com or by phone at 1-800-947-6628. One with a rather large field of view (2.5") is made by a company called Peak. Many are listed in the summer B\&H catalog on page 61. Hope this helps. Julie

End of weavetech@topica.com digest, issue 359
From list-errors.700002588.0.701753111.004@boing.topica.com Mon Aug 21 12:13:01 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id MAA05699 for [ralph@localhost](mailto:ralph@localhost); Mon, 21 Aug 2000 12:12:04 -0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Mon, 21 Aug 2000 12:12:05 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5]) by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id KAA01047 for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Mon, 21 Aug 2000 10:54:39-0700 (MST)
Received: from outmta007.topica.com (outmta007.topica.com [206.132.75.209]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id KAA18647 for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Mon, 21 Aug 2000 10:52:32 -0700 (MST)

## WeaveTech Archive 0008

```
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 360
Date: Mon, 21 Aug 2000 10:51:55 -0700
Message-ID: <0.0.606024090-951758591-966880315@topica.com>
X-Topica-Loop: 0
Status: R
-- Topica Digest --
Re: Pick Glass
By janee@softweave.com
Re: mixing fibers
By hubbard182@worldnet.att.net
RE: Pick Glass
By judie@eatough.net
RE: mixing fibers
By darmul@netbistro.com
RE: mixing fibers
By arachne@humboldt1.com
Re: AVL brake
By laurafry@netbistro.com
Fantasy Weave
By jcplante3@juno.com
Re: AVL brake
By nancy@selway.umt.edu
Re: AVL brake
By nancy@selway.umt.edu
Re: Pick Glass
By MargeCoe@concentric.net
```

Date: Mon, 21 Aug 2000 06:52:39 -0400
From: Jane Eisenstein [janee@softweave.com](mailto:janee@softweave.com)
Subject: Re: Pick Glass
>My husband uses a similar gadget (called a loupe) for black and white >photography, and bought his (and they have many varieties including one with $>a$ light) at B\&H photo online at www.bhphotovideo.com or by phone at $>1-800-947-6628$. One with a rather large field of view (2.5") is made by a >company called Peak. Many are listed in the summer B\&H catalog on page 61.

Do these incorporate a gauge so that you can calculate threads per inch?

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Jane Eisenstein janee@softweave.com http://www.softweave.com/
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Date: Mon, 21 Aug 2000 09:26:01-0400
From: "Jeffrey D. \& Martha H. Hubbard" [hubbard182@worldnet.att.net](mailto:hubbard182@worldnet.att.net) Subject: Re: mixing fibers

# WeaveTech Archive 0008 

Anne,
I've been doing a lot of fiber mixing in summer \& winter lately. The only problem that I've had was in the differential shrinkage when using $30 / 2$ silk warp, a very fine silk for tabby weft and $20 / 2$ wool pattern weft. Everything shrunk except the tabby weft (given to me by a friend and thus don't know the size except that it's smaller that 60/2 and a mill end because it's still on wooden spools), which puckered up on the fabric surface in tiny loops. This problem did not occur when I used either sewing thread or $20 / 2$ cotton with rayon chenille or $8 / 2$ unmerc cotton for pattern weft on the same $30 / 2$ silk warp. So I guess the secret is to make sure that both of your weft threads shrink by roughly the same amount. Definitely do a sample and wash and dry it the same way that you plan to do with your scarves. Good luck
Martha

Date: Mon, 21 Aug 2000 07:34:47 -0600
From: "Judie Eatough" [judie@eatough.net](mailto:judie@eatough.net)
Subject: RE: Pick Glass
This one looks like the old linen tester that has a one inch base. Thanks for the site information, Julie.
http://www02.bhphotovideo.com/default.sph/FrameWork.class?FNC=ProductActivat or__Aproductlist_html___2393___40617___PE1006SA3___REG___SID=E1542FF5DE0\#got o_description

Date: Mon, 21 Aug 2000 07:23:05-0700
From: "Darlene Mulholland" [darmul@netbistro.com](mailto:darmul@netbistro.com)
Subject: RE: mixing fibers
I mix fibers in almost everything I weave. The one fiber I really avoid = is acrylic as it will not shrink as most everything else does. Mixing = fibers in the warp works for me in scarves and shawls but I do try and = space the different fibers across the warp in a roughly even mix. Just $=$ don't clump all the wool, all the cotton etc. $=20$

I do one structure [I call it multi - harness mooreman] sort of a tied = weave that has wool in the warp and cotton as the tie down warp [wound $=$ on a separate beam] then wool and mohair in the weft and have never had = a problem finishing it. I 'really' full this cloth a lot without = strange things happening.

Darlene Mulholland
darmul@netbistro.com
Artisan Knitting Machine Dealer
www.pgmoneysaver.bc.ca/weaving/=20

Date: Mon, 21 Aug 2000 08:38:37 -0700
From: Terri Tinkham [arachne@humboldt1.com](mailto:arachne@humboldt1.com)
Subject: RE: mixing fibers
$>$ I mix fibers in almost everything I weave.
I do the same thing but I also have learned to avoid linen which does not shrink much either. I don't have a separate beam and I don't do long warps (8-10 yds max.).

## WeaveTech Archive 0008

Date: Mon, 21 Aug 2000 07:08:24 -0700
From: Laura Fry [laurafry@netbistro.com](mailto:laurafry@netbistro.com)
Subject: Re: AVL brake
I usually disengage the brake as soon as I've completed a warp.
A string "sling" holds the tensioning arm when the cord is off.
Laura Fry
who managed to complete the 15 yards of two shuttle weaving
after DH cobbled together a sheet metal bracket to replace the compu-dobby I bracket that sheared off.....
Usually a shaft that slips out of the swing arm just means the arm has shifted - in this case the Compu-dobby was hanging
from the back bracket!
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Date: Mon, 21-Aug-2000 16:28:11 GMT
From: Jane Plante [jcplante3@juno.com](mailto:jcplante3@juno.com)
Subject: Fantasy Weave
Occasionally I come across this when looking at weaving books, but can find out nothing about what it is or means. Does anyone out there know anything abou it or where I can find out more?? Thanks, Jane

Date: Mon, 21 Aug 2000 11:18:41-0600
From: "Nancy Arnold" [nancy@selway.umt.edu](mailto:nancy@selway.umt.edu)
Subject: Re: AVL brake
This is a multi-part message in MIME format.
------=_NextPart_000_007C_01C00B61.8F9AE440
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Here are Word documents.
Nancy
-----Original Message-----
From: Laura Fry [laurafry@netbistro.com](mailto:laurafry@netbistro.com)
To: weavetech@topica.com [weavetech@topica.com](mailto:weavetech@topica.com)
Date: Monday, August 21, 2000 10:21 AM
Subject: Re: AVL brake
>I usually disengage the brake as soon as I've completed a warp.
$>A$ string "sling" holds the tensioning arm when the cord is off.
$>$
>Laura Fry
>who managed to complete the 15 yards of two shuttle weaving >after DH cobbled together a sheet metal bracket to replace the >compu-dobby I bracket that sheared off.....
$>$ Usually a shaft that slips out of the swing arm just means the >arm has shifted - in this case the Compu-dobby was hanging >from the back bracket!
$>$
$>$
>T 0 P I C A The Email You Want. http://www.topica.com/t/16

## WeaveTech Archive 0008

>Newsletters, Tips and Discussions on Your Favorite Topics
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Content-Type: application/msword; name="busasst.doc"
Content-Transfer-Encoding: base64
Content-Disposition: attachment;
filename="busasst.doc"
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## WeaveTech Archive 0008

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## WeaveTech Archive 0008

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c2FtZSBidXNpbmVzcyBvciBhbiBhZGphY2VudCBpbmR1c3RyeSwgcmV0YW1sZXJzLCBzYWxlcyBy ZXByZXNlbnRhdGl2ZXMsIGluZHVzdHJ5IGFzc29jaWF0aW9ucywgb3IgY2hhbWJlciBvZiBjb21t ZXJjZSBjYW4gcHJvdmlkZSB0aGUgVlIgY29uc3VtZXIgd2l0aCBpbnNpZ2h0IGFib3V0IGluc3Vy YW5jZSwgaW52ZW50b3J5LCBhZHZlcnRpc2luZywgc2l0ZSBsb2NhdGlvbiwgY3VzdG9tZXJzLCBw cm9kdWN0IGRpc3RyaWJ1dGlvbiwgbGljZW5zaW5nLCBhY2NvdW50YW50cywgYXR0b3JuZXlzLCBv ciB0YXggaW5mb3JtYXRpb24uICBBbm90aGVyIHZhbHVhYmxlIHNvdXJjZSBvZiB0ZWNobmljYWwg YXNzaXN0YW5jZSBhcmUgYm9va3Mgc3VjaCBhcyB0aG9zZSBvbiBlbnRyZXByZW5ldXJzaGlwIGxp aZUgU3RhcnRpbmcgYW5kIE9wZXJhdGluZyBhIEJ1c2luZXNzIGluIE1vbnRhbmEgKHRoaXMgc2Vy aWVzIHB1Ymxpc2hlcyBhIGd1aWRLIGZvciBldmVyeSBzdGF0ZSBhbmQgV2FzaGluZ3RvbiwgRC5D KSBvciBUaGUgTW9udGFuYSBFbnRyZXByZW5ldXIncyBHdWlkZSAoYWx0aG91Z2ggc3BlY2lmaWMg dG8gTW9udGFuYSB0aGUgaW5mb3JtYXRpb24gY2FuIGJlIGdlbmVyYWxpemVkIHRvIG90aGVyIHN0 YXRlcykgb3Igb24gc3BlY2lmaWMgdG9waWNzIHN1Y2ggYXMgbWFya2V0aW5nLCBtYW5hZ2VtZW50 LCBvciBvbiB0aGUgc2VydmljZSBwcm92aWRLZCBvciBwcm9kdWN0IG1hbnVmYWN0dXJlZC4gIA0N NS4JRGV2ZWxvcCBhIEJ1c2luZXNzIFBsYW4NDVRoZSBidXNpbmVzcyBwbGFuIHdpbGwgYmUgdXNL ZCB3aGVuIGFwcGx5aW5nIGZvciBmdW5kcyBmcm9tIFZSIG9yIGZyb20gc291cmNlcyBvdGhlciB0 aGFuIFZSLiAgSXQgaXMgYSBwbGFuIHRoYXQgd2lsbCBhbGxvdyBzb3VyY2VzIG9mIGZ1bmRpbmcg dG8gZXZhbHVhdGUgdGhlIGJ1c2luZXNzIGFuZCBpdHMgY2hhbmNlcyBmb3Igc3VjY2Vzcy4gIE1p bmltYWxseSwgdGhlIGJ1c2luZXNzIHBsYW4gc2hvdWxkIGluY2x1ZGUgYSBzdW1tYXJ5LCBhIG1h cmtldCBhbmFseXNpcywgYSBtYXJrZXRpbmcgcGxhbiwgYSBmaW5hbmNpYWwgcGxhbiAoYnJlYWtl dmVuIGFuYWx5c2lzLCBjYXNoZmxvdyBhbmFseXNpcywgaW5jb21lIHN0YXR1bWVudCwgYW5kIGJh bGFuY2Ugc2hlZXQpLCBhbiBhbmFseXNpcyBvZiBpbml0aWFsIGludmVudG9yeSBhbmQgc3VwcGxp ZXMsIGEgZGlzY3Vzc2lvbiBvZiBtZXRob2RzIGZvciByZWNvcmRrZWVwaW5nLCBhbmQgYWRkcmVz cyB6b25pbmcsIGxpY2Vuc2VzLCBhbmQgaW5zdXJhbmN1LCBhIGRpc2N1c3Npb24gb2YgcG9zc2li bGUgcmlza3MgYW5kIHByb2JsZW1zLCBhbmQgYW4gb3ZlcmFsbCBpbXBsZW1lbnRhdGlvbiBzY2hl ZHVsZS4gICANDUEgcmV2aWV3IG9mIHRoZSBwbGFuJ3MgYWRlcXVhY3kgY2FuIGJlIGNvbmR1Y3Rl ZCBieSB0aGUgY291bnNlbG9yLCBhIFZSIGNvbW1pdHRlZSBvciBleHBlcnQsIG9yIGFuIG91dHNp ZGUgY29uc3VsdGFudC4gIEl0IGlzIGFudGljaXBhdGVkIHRoYXQgYSBWUiBjb21taXR0ZWUgb3Ig ZXhwZXJ0IGFuZCBhbiBvdXRzaWR1IGNvbnN1bHRhbnQgd291bGQgaGF2ZSB0aGUgc2tpbGxzIG5i Y2Vzc2FyeSBmb3IgYW5hbHl6aW5nIHBsYW4uICBIb3dldmVyLCB3aGVuIGEgIGNvdW5zZWxvciBv ciBjb3Vuc2Vsb3Igc3VwZXJ2aXNvciBpcyBleHBlY3RlZCB0byBldmFsdWF0ZSBhbmQgYXBwcm92 ZSB0aGUgcGxhbiwgaXQgaXMgaW1wb3J0YW50IHRvIHJlY29nbml6ZSB0aGV5IG1pZ2h0IG5vdCBw b3NzZXNzIHRoZSBza2lsbHMgb3Iga25vd2xlZGdlIG5lY2Vzc2FyeSB0byBhZGVxdWF0ZWx5IGFz c2VzcyB0aGUgc2VsZi1lbXBsb3ltZW50IHBsYW4sIGFuZCBpcyByZWNvbW1lbmRIZCB0aGF0IHRy YWluaW5nIGJlIHByb3ZpZGVkIG9yIHRoYXQgYW4gb3V0c2lkZSBvciBWUiBkZXBhcnRtZW50IGNv bnN1bHRhbnQgYmUgYXZhaWxhYmxlIGZvciBjb25zdWx0YXRpb24uDQwNNi4JRXhwbG9yZSBhbmQg QXBwbHkgZm9yIFJlc291cmNlcyBBdmFpbGFibGUgRnJvbSBPdGhlciBTb3VyY2VzDQ1UaGUgY29u c3VtZXIgaXMgZXhwZWN0ZWQgdG8gY29udHJpYnV0ZSBhcyBtdWNoIGFzIHBvc3NpYmxlIHRvd2Fy ZHMgdGhlIGJ1c2luZXNzIGZyb20gaGltIG9yIGhlciBvd24gcmVzb3VyY2VzLiAgSWYgYWRkaXRp b25hbCBmdW5kcyBhcmUgbmVIZGVkLCB0aGUgY29uc3VtZXIgc2hvdWxkIGFwcGx5IGZvciBmdW5k cyBmcm9tIG90aGVyIHNvdXJjZXMgc3VjaCBhcyB2ZW50dXJIIG9yIGludmVzdG1lbnQgY2FwaXRh bGlzdHMsIGJhbmtzLCB0aGUgU21hbGwgQnVzaW5lc3MgQWRtaW5pc3RyYXRpb24gKGVpdGhlciBm b3IgYSBsb2FuIG9yIGEgbG9hbiBndWFyYW50ZWUpLCBDb21tdW5pdHkgRGV2ZWxvcG1lbnQgQmxv Y2sgR3JhbnRzLCB0cmFkZSBjcmVkaXQsIGZpbmFuY2UgY29tcGFuaWVzLCBTb2NpYWwgU2VjdXJp dHksIHdlYWx0aHkgaW5kaXZpZHVhbCBpbnZlc3RvcnMsIGZhbWlseSwgb3IgZnJpZW5kcy4NDTcu CUFnZW5jeSBSZXZpZXdzIFNlbGYtRW1wbG95bWVudCBQbGFuDQ1UaGUgZW50aXJlIHNlbGYtZW1w bG95bWVudCBwbGFuIHNob3VsZCBiZSByZXZpZXdlZCBieSBvbmUgb3IgbW9yZSBpbmRpdmlkdWFs cyBrbm93bGVkZ2VhYmxlIGFib3V0IHRoZSBwcm9wb3NLZCBidXNpbmVzcywgdGhlIGFyZWEsIG9y IGFib3V0IHNtYWxsIGJ1c2luZXNzIG9wZXJhdGlvbi4gIFRoZSBwZXJzb24gb3IgcGVyc29ucyBy ZXNwb25zaWJsZSBmb3IgdGhpcyByZXZpZXcgbWF5IHZhcnkgZnJvbSBhZ2VuY3kgdG8gYWdlbmN5 LCBidXQgbWlnaHQgaW52b2x2ZSB0aGUgY291bnNlbG9yLCB0aGUgY291bnNlbG9yJ3Mgc3VwZXJ2 aXNvciwgYSBjb21taXR0ZWUsIG9yIGFuIG91dHNpZGUgY29uc3VsdGFudC4gIENvbmNlcm5zIGV4 cHJlc3NLZCBzaG91bGQgYmUgYWRkcmVzc2VkIGFuZCBkZXBlbmRpbmcgb24gdGhlaXIgc2V2ZXJp dHkgdGhlIHBsYW4gc2hvdWxkIGJlIHJldmlld2VkIGFnYWluIHByaW9yIHRvIGFwcHJvdmFsIGFu ZCBmdW5kaW5nIHRoZSB2ZW50dXJlLg0NDQ0NOC4JRm9sbG93LVVwDQ1Gb2xsb3ctdXAgc2hvdWxk IGluY2x1ZGUgYSByZXZpZXcgb2YgdGhlIGJ1c2luZXNzJyBwcm9maXQvbG9zcyBhbmQgaW5jb21l L2V4cGVuc2Ugc3RhdGVtZW50cywgYm9va3MsIGFuZCB0YXggcmV0dXJucyBieSB0aGUgY291bnNL bG9yIGlmIHF1YWxpZmllZCB0byByZXZpZXcgYW5kIGludGVycHJldCB0aGVtIG9yIGJ5IG9uZSBv ciBtb3JlIHBlb3BsZSB3aG8gY2FuIGludGVycHJldCBhbmQgcGFzcyBqdWRnZW1lbnQgb24gdGhl IHNvdW5kbmVzcyBvZiB0aGUgYnVzaW5lc3MuICBUaGVzZSByZWNvcmRzIHNob3VsZCBiZSByZXZp ZXdlZCBvbiBhIHBlcmlvZGljIGJhc2lzLCBwb3NzaWJseSBzZW1pLWFubnVhbGx5IGZvciB0aGUg Zmlyc3QgMTIgbW9udGguICBGb2xsb3ctdXAgbWF5IGFsc28gaW5jbHVkZSBhc2tpbmcgY3VzdG9t ZXJzLCBlaXRoZXIgdGhyb3VnaCBhbiBpbnRlcnZpZXcgb3IgYSBxdWVzdGlvbm5haXJlLCBhYm91 dCBoaXMgb3IgaGVyIHNhdGlzZmFjdGlvbiB3aXRoIHRoZSBidXNpbmVzcy4NAAAAAAAAAAAAAAAA

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IHNLbGYtZW1wbG95bWVudC4gIEF0IHRoaXMgcG9pbnQgeW91IGFyZSBub3QgYXNzZXNzaW5nIHRo ZSBidXNpbmVzcyBpZGVhIG9yIGJ1c2luZXNzIHBsYW4gQyBqdXN0IHRoZSBpbmRpdmlkdWFsPXMg cG90ZW50aWFsIGZvciBzZWxmLWVtcGxveW1lbnQuICBUaGlzIGFzc2Vzc21lbnQgZGlzY2xvc2Vz IHRoZSBjb25zdW1lcj1zIHN0cm9uZyBhbmQgd2VhayBjaGFyYWN0ZXJpc3RpY3MgYW5kIGhpZ2hs aWdodHMgdHJhaW5pbmcgb3IgZWR1Y2F0aW9uIHRvIHB1cnN1ZS4gIFdlIHJIY29tbWVuZCB1c2lu ZyBIZXJ6b2cgYW5kIEdvb2RtYW49cyBCdXNpbmVzcyBBc3Nlc3NtZW50IFNjYWxlIGZvciB0aGlz IHB1cnBvc2UuICBDaGFwdGVyIDQgLSBBU2VsZi1FbXBsb3ltZW50IEFzc2Vzc21lbnRAIHByb3Zp ZGVzIGEgY29tcGxldGUgZGlzY3Vzc2lvbiBvZiBhc3Nlc3NtZW50Lg0NU3RlcCA00gkgRGV2ZWxv cCB0aGUgSW5kaXZpZHVhbCBQbGFuIG9mIEVtcGxveW1lbnQNDVRoZSBlbXBsb3ltZW50IGdvYWwg aXMgaWRlbnRpZmllZCBhZnRlciBTdGVwIDMuICBJZiB0aGUgZGVjaXNpb24gaXMgdG8gY29udGlu dWUgYW5kIHB1cnN1ZSBzZWxmLWVtcGxveW1lbnQsIGluZGljYXRlIGluIHRoZSBJbmRpdmlkdWFs IFBsYW4gb2YgRW1wbG95bWVudCAoSVBFKSBhIHNwZWNpZmljIG9jY3VwYXRpb24gb3Igb2NjdXBh dGlvbmFsIGdyb3VwaW5nIGJhc2VkIG9uIHRoZSB0eXBLIG9mIGJ1c2luZXNzIHRoZSBjb25zdW1l ciB3aXNoZXMgdG8gc3RhcnQuICBTZWxmLWVtcGxveW1lbnQgSVMgTk9UIGRldGVybWluZWQgYXMg dGhlIHNwZWNpZmljIGdvYWwgYXQgdGhpcyB0aW11LCBob3dldmVyLiAgVGhpcyBzaG91bGQgaGF2 ZSBiZWVuIGV4cGxhaW5lZCB0byB0aGUgY29uc3VtZXIgZHVyaW5nIHN0ZXAgMiwgYW5kIHNob3Vs ZCBiZSByZWl0ZXJhdGVkIG5vdy4gDQ0NU3RlcCA10glJZGVudGlmeSBTb3VyY2VzIGZvciBUcmFp bmluZywgRWR1Y2F0aW9uLCBhbmQgZm9yIFByZXBhcmluZyBmb3IgIFNLbGYtRW1wbG95bWVudA0N SWRlYWxseSwgdGhlIGFzc2Vzc21lbnQgcGhhc2UgaWRlbnRpZmllZCBrbm93bGVkZ2UgYW5kIHNr aWxscyB0aGF0IHRoZSBjb25zdW1lciBzaG91bGQgcHVyc3VlIHRvIGVuaGFuY2UgdGh1IGJ1c2lu ZXNzPXMgc3VjY2Vzcy4gICBTZXJ2aWNlcywgZWR1Y2F0aW9uLCBvciB0cmFpbmluZyBtYXkgaGVs cCB0aGUgY29uc3VtZXIgZGV2ZWxvcCBhIGJ1c2luZXNzIHBsYW4gb3IgcmVtZWR5IGFueSBkZWZp Y2llbmNpZXMgaW4gc2tpbGxzIG9yIGtub3dsZWRnZS4gIExvY2F0aW5nIHRyYWluaW5nIHJlc291 cmNlcyBpbiBydXJhbCBhcmVhcyBtaWdodCBiZSBkaWZmaWN1bHQgQyB5b3UgYW5kIHRoZSBjb25z dW1lciBtYXkgaGF2ZSB0byBiZSBjcmVhdGl2ZS4gIEZvciBleGFtcGxlLCBpZiBoZSBvciBzaGUg bmVlZHMgY29tcHV0ZXIgdHJhaW5pbmcgYnV0IGNsYXNzZXMgYXJlIG5vdCBhdmFpbGFibGUgbG9j YWxseSwgY29uc2lkZXIgcGF5aW5nIGEgbG9jYWwgY29tcHV0ZXIgd2l6YXJkIHRvIHByb3ZpZGUg dGhlIHRyYWluaW5nLiAgDQ1PdGhlciBsZWFybmluZyBvcHBvcnR1bml0aWVzIG1pZ2h0IGluY2x1 ZGUgYW4gYXBwcmVudGljZXNoaXAgb3Igd29yayBpbiB0aGUgdHlwZSBvZiBidXNpbmVzcyB0aGUg Y29uc3VtZXIgd2lzaGVzIHRvIG9wZW4uICBJZiB0aGUgY29uc3VtZXIgaGFzIG5vIHNtYWxsIGJ1 c2luZXNzIGV4cGVyaWVuY2UsIHNvbWUgYnVzaW5lc3MgZXhwZXJ0cyByZWNvbW1lbmQgdGhhdCBo ZSBvciBzaGUgc3BlbmQgYXMgbXVjaCB0aW1lIGFzIHBvc3NpYmxlIG9ic2VydmluZyBvciB3b3Jr aW5nIGluIGEgc2ltaWxhciBidXNpbmVzcyBDIG9mIGNvdXJzZSB0aGUgbGV2ZWwgb2YgaW52b2x2 ZW1lbnQgYW5kIGxlbmd0aCBvZiB0aW1lIGlzIHVwIHRvIHRoZSBidXNpbmVzcyBvd25lci4gIFRo ZSBidXNpbmVzcyBvd25lciBzaG91bGQgYmUgd2lsbGluZyB0byBkaXNjdXNzIGhpcyBvciBoZXIg YnVzaW5lc3MgcHJhY3RpY2VzIGFuZCBzdHJhdGVnaWVzLiAgDQ0NDFN0ZXAgNjoJVGhlIEluZGl2 aWR1YWwgU3VjY2Vzc2Z1bGx5IENvbXBsZXRlcyBTZXJ2aWNLcywgVHJhaW5pbmcsIG9yIEVkdWNh dGlvbiAoU3R1cHMgNiY3IGNhbiBiZSBjb21wbGV0ZWQgY29uY3VycmVudGx5IHdpdGggIFN0ZXBz IDgtMTAuKQ0NSWYgZXZlcnl0aGluZyBnb2VzIGFzIHBsYW5uZWQsIHRoZSBpbmRpdmlkdWFsIHdp bGwgc3VjY2Vzc2Z1bGx5IGNvbXBsZXRLIG5lZWRLZCBzZXJ2aWNlcywgdHJhaW5pbmcsIG9yIGVk dWNhdGlvbi4gIElmIHRoZSBwZXJzb24gZG9lcyBub3Qgc3VjY2Vzc2Z1bGx5IGNvbXBsZXRIIHNL cnZpY2VzLCB0cmFpbmluZywgb3IgZWR1Y2F0aW9uLCB0aGVuIG10IGlzIGltcG9ydGFudCB0byBh c2NlcnRhaW4gd2h5LiAgVGhlIGluZGl2aWR1YWwgbWF5IGhhdmUgYmVlbiBkaXNzYXRpc2ZpZWQg d210aCB0aGUgdHJhaW5pbmcgb3Igc2VydmljZXMgQyBpdCBtYXkgbm90IGhhdmUgbWV0IGhpcyBv ciBoZXIgbmVlZHMgb3IgbWF5IGhhdmUgYmVlbiB0b28gYWNhZGVtaWMuICBJZiBzbywgcGVyaGFw cyBhbm90aGVyLCBsZXNzIGFjYWRlbWljIG1ldGhvZCBzaG91bGQgYmUgZXhwbG9yZWQuICBBZnRl ciBzcGVuZGluZyB0aW1lIGluIGEgYnVzaW5lc3Mgb3IgYW4gYXBwcmVudGljZXNoaXAsIHRoZSBp bmRpdmlkdWFsIG1heSBoYXZlIHJlYWxpemVkIHRoYXQgaGUgb3Igc2hlIGRvZXMgbm90IHdhbnQg dG8gc3RhcnQgdGhhdCB0eXBlIG9mIGJ1c2luZXNzIG9yIHdvcmsgYXQgdGhliGxldmVsIG5lZWR1 ZCB0byBtYWtlIHRoZSBidXNpbmVzcyBhIHN1Y2Nlc3MuICBQZXJoYXBzIGFub3RoZXIgdHlwZSBv ZiBidXNpbmVzcyBjb3VsZCBiZSBwdXJzdWVkLCBvciB0aGUgcGVyc29uIHNob3VsZCBjb25zaWRl ciB3b3JraW5nIGZvciBzb21lb25lIGVsc2UgaW4gdGhlIHR5cGUgb2YgYnVzaW5lc3MgZGVzY3Jp YmVkIGluIHRoZSBJUEUuIA0NSW4gZWl0aGVyIGNhc2UsIHByb2N1ZWQgdG8gc3RlcCA3IGFuZCBk ZXRlcm1pbmUgd2hldGhlciBlaXRoZXIgdGhlIGNvbnN1bWVyIG9yIHRoZSBWUiBhZ2VuY3kgaXMg c3RpbGwgaW50ZXJlc3RLZC4NDQ1TdGVwIDc6CURldGVybWluZSBDb250aW51ZWQgSW50ZXJIc3QN DVRoaXMgaXMgYW4gb3Bwb3J0dW5pdHkgZm9yIHRoZSBhZ2VuY3kgdG8gcmUtZXZhbHVhdGUgdGhl IGluZGl2aWR1YWw9cyBpbml0aWF0aXZlIGFuZCBkcml2ZSwgYW5kIHRvIGRldGVybWluZSBob3cg aW52ZXN0ZWQgaGUgb3Igc2hLIGlzIGluIHN0YXJ0aW5nIHRoZSBwcm9wb3NLZCBidXNpbmVzcy4g IEl0IGFsc28gaXMgYW4gb3Bwb3J0dW5pdHkgZm9yIHRoZSBjb25zdW1lciB0byByZS1ldmFsdWF0 ZSBoaXMgb3IgaGVyIGRlc2lyZSB0byBiZWNvbWUgc2VsZi1lbXBsb3llZC4NDQ1TdGVwIDg6CUlu ZGl2aWR1YWwgYW5kIENvdW5zZWxvciBXb3JrIHdpdGggQ29uc3VsdGFudHMgdG8gRGV2ZWxvcCBQ bGFuLCAgTWFya2V0aW5nIGFuZCAgRnVuZGluZyBTdHJhdGVnaWVzIA0NSWYgdGhlcmUgaXMgY29u dGludWVkIGludGVyZXN0LCB0aGUgbmV4dCBzdGVwIGlzIHRvIHRha2UgdGhlIGJ1c2luZXNzIHBs

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YW4gZnJvbSBhIGRyYWZ0IHRvIGEgY29tcHJlaGVuc2l2ZSBkb2N1bWVudC4gIEEgZ29vZCBjb21w cmVoZW5zaXZlIGJ1c2luZXNzIHBsYW4gd2lsbCBiZSB0aGUgbmV3IGJ1c2luZXNzPXMgIHJvYWQg bWFwLCBjYW4gYmUgdXNLZCB0byBvYnRhaW4gbmVjZXNzYXJ5IGZ1bmRpbmcsIGFuZCBpcyBuZWNL c3NhcnkgZm9yIGp1ZGdpbmcgdGhlIHBvdGVudGlhbCBmb3Igc3VjY2Vzcy4gIA0NDE1vc3QgcGVv cGxlIGhhdmUgbm8gZXhwZXJpZW5jZSB3aXRoIGRldmVsb3BpbmcgIGJ1c2luZXNzIHBsYW5zLCBz byB3ZSByZWNvbW1lbmQgdGhhdCAgYSBjb25zdWx0YW50IGhlbHAuICBUaGVyZSBhcmUgbWFueSBj b25zdWx0YW50cyBhdmFpbGFibGUgQyBDaGFwdGVyIDcgLSBBUmVzb3VyY2VzIGFuZCBSZXNvdXJj ZSBQYXJ0bmVyc0AgZGlzY3Vzc2VzIGNvbnN1bHRhbnRzIGFuZCBidXNpbmVzcyBkZXZlbG9wbWVu dCByZXNvdXJjZXMuICBDaGFwdGVyIDUgLSBBV2hvIERvZXMgV2hhdCBpbiB0aGUgUHJvY2Vzcz9A IGRpc2N1c3NlcyB0aGUgY29uc3VsdGFudD1zIHJvbGUgaW4gZGV2ZWxvcGluZyB0aGUgYnVzaW5l c3MgcGxhbi4gIENoYXB0ZXIgNiAtIEFUaGUgQnVzaW5lc3MgUGxhbkAgZGlzY3Vzc2VzIHRoZSBi dXNpbmVzcyBwbGFuLg0NDVN0ZXAg0ToJQ291bnNLbG9yIGFuZCBJbmRpdmlkdWFsIEV2YWx1YXR1 IEFsbCBCdXNpbmVzcyBQbGFuIERyYWZ0cw0NV2l0aCB0aGUgY29uc3VtZXIsIGV2YWx1YXRlIGFs bCBkcmFmdHMgb2YgdGhlIGJ1c2luZXNzIHBsYW4gZm9yIGNvbXBsZXRlbmVzcyBhbmQgdGhvcm91 Z2huZXNzLiAgQWZ0ZXIgY29tcGxldGluZyB0aGlzIG1hbnVhbCwgeW91IHdpbGwgYmUgYWJsZSB0 byBldmFsdWF0ZSBhIHBsYW4gYW5kIHJlcXVlc3QgYW55IG5lY2Vzc2FyeSBjbGFyaWZpY2F0aW9u IGFuZCBjaGFuZ2VzIGZyb20gdGhlIGNvbnN1bWVyLg0NDVN0ZXAgMTA6ICAJVGhlIEJ1c2luZXNz IFBsYW4gaXMgQ29tcGxldGUNDUEgY29tcGxldGVkIHBsYW4gaXMgIG5lY2Vzc2FyeSBmb3Igc3Rl cCAxMS4NDQ1TdGVwIDEx0iAJUmUtRXZhbHVhdGUgdGhlIEluZGl2aWR1YWwgYW5kIHRoZSBQcm9w b3NLZCBCdXNpbmVzcw0NQXQgdGhpcyBjcml0aWNhbCBwb2ludCBpbiB0aGUgcHJvY2VzcyB0aGUg YWdlbmN5IGV2YWx1YXRlcyBib3RoIHRoZSBjb25zdW1lciBhbmQgaGlzIG9yIGhlciBwcm9wb3Nl ZCBidXNpbmVzcyB0byBkZXRlcm1pbmUgaWYgVlIgd2lsbCBwcm92aWRIIHN1cHBvcnQuICBXZSBy ZWNvbW1lbmQgYWRtaW5pc3RlcmluZyB0aGUgQnVzaW5lc3MgQXNzZXNzbWVudCBTY2FsZSBhIHNL Y29uZCB0aW1lIHRvIGV2YWx1YXRLIGJvdGggdGhlIGluZGl2aWR1YWwgYW5kIHRoZSBidXNpbmVz cyBpZGVhLCBpbiBjb25qdW5jdGlvbiB3aXRoIHByZXZpb3VzIGFzc2Vzc21lbnQocyksIHRoZSBj b21wbGV0ZWQgYnVzaW5lc3MgcGxhbiwgdGhlICBidXNpbmVzcyBjb25zdWx0YW50PXMgaW5wdXQs IG90aGVyIHNvdXJjZXMgKGUuZy4sIHRyYWluaW5nIHBsYWNlbWVudCksIGFuZCB5b3VyIG93biBl eHBlcmllbmNLIHdpdGggdGhpcyBwZXJzb24uDQ0NDFN0ZXAgMTI6CUFtZW5kIHRoZSBJUEUgYW5k IERldGVybWluZSBQYXJhbWV0ZXJzIG9mIFZSIENvbnRyaWJ1dGlvbg0NVXAgdG8gdGhpcyBwb2lu dCwgc2VsZi1lbXBsb3ltZW50IGhhcyBub3QgYmVlbiBmb3JtYWxseSBpZGVudGlmaWVkIGFzIHRo ZSBlbXBsb3ltZW50IG91dGNvbWUuICBJZiAgdGhlIGFnZW5jeSBoYXMgZGVjaWRlZCB0byBzdXBw b3J0IHRoZSBidXNpbmVzcywgYW1lbmQgdGhlIElQRSBhbmQgZGV0ZXJtaW5lIHRoZSBsZXZlbCBv ZiBWUiBmdW5kaW5nIGZvciB0aGUgYnVzaW5lc3MuICBJbiB0aGlzIHN0ZXAsIHRoZSBWUiBhZ2Vu Y3kgZXN0YWJsaXNoZXMgYSBmdW5kaW5nIHJhbmdlIGFuZCBkZXNjcmliZXMgaG93IGZ1bmRzIGFy ZSB0byBiZSB1c2VkICh1LmcuLCB0byBwdXJjaGFzZSBlcXVpcG1lbnQsIGludmVudG9yeSwgb3Ig bWFya2V0aW5nIHNLcnZpY2VzKS4gIFRoZSBhZ2VuY3k9cyBjb250cmlidXRpb24gaXMgZmluYWxp emVkIGlmICB0aGUgYnVzaW5lc3MgaXMgc28gc21hbGwgdGhhdCBhZGRpdGlvbmFsIGZ1bmRzIHdp bGwgbm90IGJlIHNvdWdodC4NDVZSIGVzdGFibGlzaGVzIGZ1bmRpbmcgcGFyYW1ldGVycyBhdCB0 aGlzIHRpbWUgc28gaXRzIGNvbnRyaWJ1dGlvbiBjYW4gYmUgcmVmbGVjdGVkIHdoZW4gdGhlIGNv bnN1bWVyIGFwcGxpZXMgZm9yIGEgbG9hbiBvciBkZXZlbG9wcyBhIFBsYW4gZm9yIEFjaGlldmlu ZyBTZWxmIFN1cHBvcnQgKFBBU1MpLiAgT2Z0ZW4gYSBjb25zdW1lciBjYW4gdXNLIFZSPXMgY29u dHJpYnV0aW9uIHRvIGxldmVyYWdlIG1vbmV5IGZyb20gb3RoZXIgc291cmNlcy4gDQ1BIGJhc2lj IHRlbmV0IG9mIGJ1c2luZXNzIGRldmVsb3BtZW50IGlzIHRoYXQgdGhlIHBvdGVudGlhbCBidXNp bmVzcyBvd25lciBtdXN0IGNvbnRyaWJ1dGUgZmluYW5jaWFsbHkgdG8gdGhlIGJ1c2luZXNzLiAg QSBwZXJzb25hbCBpbnZlc3RtZW50IGlzIGNvbnNpZGVyZWQgY3JpdGljYWwgZm9yIGluc3RpbGxp bmcgYSBzZW5zZSBvZiBvd25lcnNoaXAgYW5kIHJlZHVjaW5nIHRoZSBsaWtlbGlob29kIHRoYXQg dGhlIGJ1c2luZXNzIG93bmVyIHdpbGwgd2FsayBhd2F5IGlmIHRoZSBidXNpbmVzcyBmYWx0ZXJz LiAgVGhlIGluZGl2aWR1YWwgaXMgc2VyaW91cyBhYm91dCB0aGUgYnVzaW5lc3MgaWYgaGUgb3Ig c2hlIGlzIHdpbGxpbmcgdG8gaW52ZXN0IHNvbWV0aGluZyB2YWx1YWJsZSBiZXNpZGVzIHRpbWUu ICANDUhvdyBtdWNoIHNob3VsZCB0aGUgY29uc3VtZXIgY29udHJpYnV0ZSBmcm9tIGhpcyBvciBo ZXIgb3duIGZ1bmRzPyAgUmVjb21tZW5kZWQgYW1vdW50cyByYW5nZSBmcm9tIDEwJSB0byAzMCUg b2YgdGhlIHN0YXJ0dXAgZnVuZHMuICBTb211IG1pY3JvLWxvYW4gb3JnYW5pemF0aW9ucyBldmVu IGFjY2VwdCBzdWNoIHRoaW5ncyBhcyBhIGNhciBvciB3ZWRkaW5nIHJpbmcgYXMgY29sbGF0ZXJh bCBmcm9tIGxvdy1pbmNvbWUgYnVzaW5lc3Mgb3duZXJzIHdobyBoYXZlIG5vIG1vbmV5IG9mIHRo ZWlyIG93biB0byBjb250cmlidXRLLiAgVGhlcmUgYXJlIHNvbWUgd2hvIHRoaW5rIGFsb25nIGRp ZmZlcmVudCBsaW5l cywgdGhleSBiZWxpZXZlIHRoYXQgYmVjYXVzZSBwZW9wbGUgd2l0aCBkaXNh YmlsaXRpZXMgYXJIIGF0IGFuIGluaGVyZW50IGRpc2FkdmFudGFnZSwgVlIgIHNob3VsZCBwcm92 aWRLIHRvdGFsIGJ1c2luZXNzIGZ1bmRpbmcgd2hhdGV2ZXIgdGhlIGNvc3QuICBZb3Ugc2hvdWxk IHJIZmVyIHRvIHlvdXIgc3RhdGU9cyBwb2xpY2llcyBmb3IgZ3VpZGFuY2UuDQ0NDFN0ZXAgMTM6 CVRoZSBQbGFuIGlzIFN1Ym1pdHRLZCB0byBQb3RlbnRpYWwgRnVuZGVycyBmb3IgU3RhcnQtVXAg RnVuZHMNDVBvdGVudGlhbCBmdW5kZXJzIGluY2x1ZGUgZmFtaWx5LCBmcmllbmRzLCBiYW5rcywg bWljcm8tbG9hbiBwcm9ncmFtcywgYW5kIFNvY2lhbCBTZWN1cml0eSBBZG1pbmlzdHJhdGlvbiBQ bGFucyBmb3IgQWNoaWV2aW5nIFNLbGYtU3VwcG9ydCAoUEFTUykuICBDaGFwdGVyIDcgLSBBUmVz

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b3VyY2VzIGFuZCBSZXNvdXJjZSBQYXJ0bmVyc0AgZGlzY3Vzc2VzIG1hbnkgcG9zc2libGUgc291 cmNlcyBvZiBmdW5kaW5nIGV4Y2VwdCBQQVNTLiAgQ2hhcHR1ciA4IGRlc2NyaWJlcyBob3cgdG8g dXNLIGEgUEFTUyBwbGFuIGZvciBzZWxmLWVtcGxveW1lbnQuDQ1Tb21lIHN0YXRIIFZSIGFnZW5j aWVzIHJlcXVpcmUgdGhhdCB0aGUgYnVzaW5lc3MgYmUgdHVybmVkIGRvd24gYnkgb3RoZXIgZnVu ZGluZyBzb3VyY2VzIGJlZm9yZSBWUiB3aWxsIGNvbnRyaWJ1dGUgaXRzIG93biBmdW5kcy4gIEl0 IGlzIHVuZGVyc3RhbmRhYmxlIHRoYXQgb3V0c2lkZSByZXNvdXJjZXMgbXVzdCBiZSBleHBsb3Jl ZCBmaXJzdCAgYmVmb3JlIFZSIGNvbW1pdHMgdG8gZnVuZGluZyBhIGJ1c2luZXNzLiAgSG93ZXZl ciwgdGhlIGFwcHJvYWNoIGlzIHByb2JsZW1hdGljLiAgVlIgYWdlbmNpZXMgbXVzdCB1bmRlcnN0 YW5kIHdoeSBhIGxvYW4gd2FzIHR1cm5lZCBkb3duLiAgRG9lcyB0aGUgbGVuZGVyIGZ1bmQgYnVz aW5lc3Mgc3RhcnQtdXBzIGFuZC9vciBtYWtlIHNtYWxsIGxvYW5zPyAgV2FzIHRoZXJlIGluYWRl cXVhdGUgY29sbGF0ZXJhbCBvciBhIHBvb3IgY3JlZGl0IGhpc3Rvcnk/IENvdWxkbj10IHRoZSBh cHBsaWNhbnQgY29udmluY2UgdGhlIGZ1bmRlciB0aGF0IGhlIG9yIHNoZSBjb3VsZCByZXBheSB0 aGUgbG9hbj8gV2FzIHRoZSBsaWtlbGlob29kIG9mIHRoZSBidXNpbmVzcyBzdWNjZWVkaW5nIGlu IHRoZSBwcm9wb3NLZCBsb2NhdGlvbiBzbyBxdWVzdGlvbmFibGUgdGhhdCB0aGUgZnVuZGVyIGRp ZCBub3Qgd2FudCB0byBzZXQgdGhlIGFwcGxpY2FudCB1cCBmb3IgZmFpbHVyZT8gIERpZCB0aGUg YXBwbGljYW50IG1lZXQgdGhlIGZ1bmRlcj1zIGd1aWRlbGluZXM/ICBXYXMgdGhlIGJpYXMgYWdh aW5zdCBhIHBlcnNvbiBiZWNhdXNLIG9mIGhpcyBvciBoZXIgZGlzYWJpbGl0eT8gIFRoZXNLIGFy ZSBhbGwgdmFsaWQgcmVhc29ucywgYW5kIHlvdSBzaG91bGQgZXhwbG9yZSB0aGVtIHByaW9yIHRv IGEgZmluYWwgZGVjaXNpb24uICANDVRoZXJlIG1heSBiZSBjYXNl cyB3aGVyZSBhdmFpbGFibGUg ZnVuZHMgZG8gbm90IG1hdGNoIHN0YXJ0LXVwIHByb2plY3Rpb25zLiAgV2hlbiB0aGlzIGhhcHBl bnMsIHJldmlzZSB0aGUgcGxhbiBhbmQgcGFyZSBpdCBkb3duIGlmIHBvc3NpYmxlLiAgUGVyaGFw cyB0aGUgYnVzaW5lc3Mgb3duZXIgY2FuIG9wZW4gb24gYSBzbWFsbGVyIHNjYWxlIGFuZCBncm93 IHRoZSBidXNpbmVzcy4gIEhvd2V2ZXIsIG5vIG1hdHR1ciBob3cgaGFyZCB0aGUgVlIgYWdlbmN5 LCAgdGhlIGNvdW5zZWxvciwgYW5kIHRoZSBjb25zdW1lciB0cnksIHlvdSBhbGwgbXVzdCBhY2NL cHQgdGhhdCAoYXMgYWxzbyBoYXBwZW5zIHRvIHBlb3BsZSB3aXRob3V0IGRpc2FiaWxpdGllcyks ICBzb21ldGltZXMgYnVzaW5lc3NlcyBmYWlsIHRvIG9wZW4gZm9yIG1hbnkgcmVhc29ucyBDIGlu Y2x1ZGluZyBpbmFkZXF1YXRLIGZ1bmRpbmcuIA0NDVN0ZXAgMTQ6CUZpbmFsaXplIFZSIEZ1bmRp bmcgIGFuZCBPcGVuIHRoZSBCdXNpbmVzcw0NTm93IHRoYXQgVIIga25vd3MgYWxsIHRoZSBmdW5k aW5nIHNvdXJjZXMgYW5kIGFtb3VudHMsIHlvdSBjYW4gcmVldmFsdWF0ZSAgcHJldmlvdXNseS1l c3RhYmxpc2hlZCBwYXJhbWV0ZXJzLCBmaW5hbGl6ZSBWUj1zIGNvbnRyaWJ1dGlvbiBhbmQgc3Bl Y2lmeSBob3cgc3RhcnQtdXAgZnVuZHMgd2lsbCBiZSB1c2VkLg0NDA1TdGVwIDE10glBc3Npc3Qg dGhlIEJ1c2luZXNzIE93bmVyIFdpdGggRGV2ZWxvcGluZyBhIFN1cHBvcnQgU3lzdGVtDQ1BbHRo b3VnaCBzZWxmLWVtcGxveW1lbnQgZXhwZXJ0cyBhZ3JlZSB0aGF0IGZvbGxvdy11cCBzdXBwb3J0 IGlzIGltcG9ydGFudCB0byBidXNpbmVzcyBzdWNjZXNzLCBWUiBhZ2VuY2llcyBkbyBub3QgZ2Vu ZXJhbGx5IG9mZmVyIGxvbmctdGVybSwgb25nb2luZyBzdXBwb3J0cy4gIFZSIG1pZ2h0IHByb3Zp ZGUgc3VwcG9ydCBpbiBhIGNyaXNpcywgYnV0IG5vdCB0aGUgZGF5LXRvLWRheSBuZXR3b3JraW5n IGFuZCBjb25zdWx0aW5nIHRoYXQgYnVzaW5lc3Mgb3duZXJzIG5lZWQuICAgQmVmb3JligEgYnVz aW5lc3Mgb3BlbnMsIGNvbnRyYWN0IHdpdGggYSAgY29uc3VsdGFudCB0byByZXZpZXcgdGh1IGJ1 c2luZXNzPXMgbW9udGhseSBvciBiaS1tb250aGx5IGZpbmFuY2lhbCBzdGF0ZW1lbnRzLCBkaXNj dXNzIHRoZSBidXNpbmVzcyB3aXRoIGl0cyBvd25lciwgYW5kIHJlcG9ydCBiYWNrIHRvIHRoZSBh Z2VuY3kuICBFbmNvdXJhZ2UgdGhlIGJ1c2luZXNzIG93bmVyIHRvIGRldmVsb3AgaGlzIG9yIGhl ciBvd24gc3VwcG9ydCBzeXN0ZW0gc3VjaCBhcyBmaW5kaW5nIGEgbWVudG9yIG9yIG5ldHdvcmtp bmcgd2l0aCBvdGhlciBidXNpbmVzcyBvd25lcnMuIA0NDVN0ZXAgMTY6CUNsb3NLIHRoZSBDYXNL DQ1HZW5lcmFsbHksIFZSIGFuZCB0aGUgYnVzaW5lc3Mgb3duZXIgbXV0dWFsbHkgYWdyZWUgdG8g Y2xvc2UgdGhlIGNhc2Ugd2l0aG91dCBoYXZpbmcgcHJlLWRlZmluZWQgb3IgLWRlbGluZWF0ZWQg Y2lyY3Vtc3RhbmNlcy4gIEhvd2V2ZXIsIHNvbWUgYWdlbmNpZXMgaGF2ZSBpbmRpY2F0b3JzIGZv ciBjYXNLIGNsb3N1cmUuICBUaGVzZSBpbmNsdWRLIG1lZXRpbmcgdGhlIHJlcXVpcmVtZW50cyBv ZiBhIGNvcmUgaW5kaWNhdG9yLCBwbHVzIG9uZSBhZGRpdGlvbmFsIGluZGljYXRvci4gIEluZGlj YXRvcnMgbWF5IHZhcnkuICBJbiBBbGFiYW1hLCB0aGUgY29yZSBpbmRpY2F0b3IgaXMgdGhhdCB0 aGUgaW5kaXZpZHVhbCBoYXMgYmVLbiBpbiBidXNpbmVzcyBmb3IgOTAgZGF5cywgaGFzIG5vdCBi ZWVuIHByb3ZpZGVkIGFkZGl0aW9uYWwgYWdlbmN5IHN1cHBvcnQsIGFuZCBoYXMgcmVpbnZlc3Rl ZCBpbiB0aGUgYnVzaW5lc3MgdG8gc3VwcG9ydCBvbmdvaW5nIGV4cGVuc2VzLiAgQWRkaXRpb25h bCBpbmRpY2F0b3JzIGluY2x1ZGU6IHRlcm1pbmF0ZWQgU1NESSwgZGVjcmVhc2VkIHB1YmxpYyBi ZW5lZml0cywgcmVhbGl6aW5nIGEgbmV0IHByb2ZpdCBmcm9tIHRoZSBidXNpbmVzcywgc2lnbmlm aWNhbnQgZ3Jvc3MgYnVzaW5lc3MgaW5jb21lLCBvciBpbmNyZWFzZWQgZXF1aXR5IHN1Y2ggYXMg ZXF1aXBtZW50IG9yIHNhdmluZ3MuICAgIA0NDVN0ZXAgMTc6CUV2YWx1YXRpb24gYnkgdGhlIEJ1 c2luZXNzIE93bmVyIGFuZCBWUiANDQxFdmFsdWF0aW9uIGJ5IGJvdGggcGFydGllcyBwcm92aWRl cyB2YWx1YWJsZSBpbmZvcm1hdGlvbiBvbiB0aGUgYWdlbmN5PXMgc2VydmljZXMgYW5kIHRoZWly IGltcGFjdCBvbiB0aGUgaW5kaXZpZHVhbCBhbmQgdGhlIGNvbW11bml0eS4gIFdlIHJlY29tbWVu ZCB0aGF0IHRoZSBidXNpbmVzcyBvd25lciBldmFsdWF0ZSB0aGUgVlIgYWdlbmN5IGFubnVhbGx5 LCBmb3IgdXAgdG8gdGhyZWUgeWVhcnMuICBUaGlzIHByb3ZpZGVzIGluZm9ybWF0aW9uIHRvIHRo ZSBhZ2VuY3kgb24gdGhlIGVmZmVjdGl2ZW5lc3MgYW5kIHVzZWZ1bG5lc3Mgb2YgaXRzIHNLcnZp Y2VzIEMgaW5mb3JtYXRpb24gaXQgY2FuIHVzZSB0byBpbXByb3ZlIHNLbGYtZW1wbG95bWVudCBw

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AAAAAAAAAAAAAADmAAAAAAAAAAAAAAAA/QAAAAAAAAAAAAAAAPOAAAAAAAAAAAAAAADcAAAAAAAA AAAAAAAA/QAAAAAAAAAAAAAAANgAAAAAAAAAAAAAAAD9AAAAAAAAAAAAAAAAZQAAAAAAAAAAAAAAA AMMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACQAAD4SgBRGEMPONxgUAAWD6AAsQAAomAAtGAQAP hKAFDcYFAAFg+gAAAwAAEYTQAgAJAAAPhKAFEYRg+g3GBQABYPoAAAMAABGEcAgAAwAAEYSgBQkQ AAomAAtGAQANxgUAAWD6AAAFAAANxgUAAUgSAQABAAAAFkwbAAB5GwAAexsAAEwcAABNHAAAfh4A AH8eAACAHgAAcyAAAHQgAACnIAAAqCAAAGEiAABiIgAAYyIAALwiAAC9IgAAziQAAM8kAACrJgAA rCYAAK0mAACuJgAAOScAADonAABgKgAAYSoAANMqAADUKgAA1SoAAPoqAAD7KgAACywAAAwsAAAN LAAAeSwAAHosAACcLQAAnS0AAJ4tAABDLwAARC8AAEUvAACILwAAiS8AAHIwAABzMAAAdDAAAJ0w AACeMAAAyjAAAMswAADMMAAACzEAAAwxAADhMgAA4jIAAOMyAADkMgAAJzMAACgzAAARNQAAEjUA ABQ2AAAVNgAArjcAAK83AADa0QAA2zkAANw5AADd0QAAJDoAACU6AABgOwAAYTsAAOA+AADhPgAA sEAAALFAAACyQAAA5kAAAOdAAACdQQAAnkEAAJ9BAACgQQAA5EEAAOVBAABDRAAAREQAAEVEAABd RAAAXkQAACJHAAAjRwAAJEcAAFZHAABXRwAA+AAAAAAA9gAAAAAAAAAAAAAAAAAA9gAAAAAAAAAA AAAAAAAAAAD2AAAAAAAAAAAAAAAAAAAAAAAA9gAAAAAAAAAAAAAA9gAAAAAAAAAAAAAAAAD2AAAA AAAAAAAAAAAAAAAAAAIBAQANAhAACAEACQEKCQAAAABhTBsAAHkbAAB7GwAATBwAAE0cAAB+HgAA fx4AAIAeAABzIAAAdCAAAKcgAACoIAAAYSIAAGIiAABjIgAAvCIAAL0iAADOJAAAzyQAAKsmAACs JgAArSYAAK4mAAA5JwAAOicAAGAqAABhKgAA9AAAAAAAAAAAAAAAAPIAAAAAAAAAAAAAAADuAAAA AAAAAAAAAAAA8gAAAAAAAAAAAAAAAO4AAAAAAAAAAAAAAADyAAAAAAAAAAAAAAAA8gAAAAAAAAAA AAAAA04AAAAAAAAAAAAAAADYAAAAAAAAAAAAAAAA5AAAAAAAAAAAAAAAAPIAAAAAAAAAAAAAAAD AAAAAAAAAAAAAAAA8gAAAAAAAAAAAAAAAPIAAAAAAAAAAAAAAADkAAAAAAAAAAAAAAAA8gAAAAAA AAAAAAAAAO4AAAAAAAAAAAAAAADyAAAAAAAAAAAAAAAA7gAAAAAAAAAAAAAAAPIAAAAAAAAAAAAA AADyAAAAAAAAAAAAAAAA8gAAAAAAAAAAAAAAAOQAAAAAAAAAAAAAAADyAAAAAAAAAAAAAAAA7gAA AAAAAAAAAAAAAPIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKAAA+EoAURhGD6DcYFAAFg+gAAAwAA EYTQAgABAAALEAAKJgALRgEAD4SgBQ3GBQABYPoAABp7IAAAfSAAAKYgAACoIAAASiEAAHYhAAC0 IQAA9yEAAAAiAAABIgAAYCIAAGMiAABqIgAAayIAALsiAAC9IgAAMiMAADMjAAABJAAAAiQAAPUL AAD2JQAAqiYAAK4mAAC1JgAAtiYAAPwmAAD9JgAAOCcAADonAABsKAAAbSgAANMqAADVKgAA3CoA APkqAAD6KgAA+yoAAD4rAAA/KwAACywAAA0sAAAULAAAFSwAAHgsAAB6LAAAKy0AACwtAAAtLgAA Li4AADsuAAA8LgAAWy4AAFwuAACkLgAApS4AAMIuAADDLgAA3C4AAN0uAAASLwAAEy8AACQvAAAl LwAAQy8AAEUvAABMLwAATS8AAIcvAACJLwAAcTAAAHQwAAB8MAAA9+/o4dnh9+H34dLN9+/o4cbh xuHG4dLN0u++7+jhxuHSze/ot+HG4dLN0u/o4cbhxuHG4cbhxuHG4cbhxuHG4dLN0u/34dLNAAAM Q0ocAE9KAwBRSgMAAA81CIFDSigAT0oDAFFKAwAMQ0ocAE9KBQBRSgUAAAhPSgQAUUoEAAAMQ0oo AE9KBABRSgQAAA82CIFDShwAT0oEAFFKBAAMQ0ocAE9KBABRSgQAAAxDSigAT0oDAFFKAwAADzUI gUNKHABPSgMAUUoDAA81CIFDShwAT0oEAFFKBAAASGEqAADTKgAA1CoAANUqAAD6KgAA+yoAAAss AAAMLAAADSwAAHksAAB6LAAAnC0AAJ0tAACeLQAAQy8AAEQvAABFLwAAiC8AAIkvAAByMAAAczAA AHQwAACdMAAAnjAAAMowAADLMAAAzDAAAAsxAAD7AAAAAAAAAAAAAAAA+QAAAAAAAAAAAAAAAPkA AAAAAAAAAAAAAADvAAAAAAAAAAAAAAAA+wAAAAAAAAAAAAAAAPsAAAAAAAAAAAAAAAD5AAAAAAAA AAAAAAAA+QAAAAAAAAAAAAAAA08AAAAAAAAAAAAAAAD5AAAAAAAAAAAAAAAA+wAAAAAAAAAAAAAA APkAAAAAAAAAAAAAAAD5AAAAAAAAAAAAAAAA+wAAAAAAAAAAAAAAAPkAAAAAAAAAAAAAAAD5AAAA AAAAAAAAAAAA7wAAAAAAAAAAAAAAAPkAAAAAAAAAAAAAAAD7AAAAAAAAAAAAAAAA+QAAAAAAAAAA AAAAAPkAAAAAAAAAAAAAAADvAAAAAAAAAAAAAAAA+QAAAAAAAAAAAAAAAPsAAAAAAAAAAAAAAAD5 AAAAAAAAAAAAAAAA+QAAAAAAAAAAAAAAAO8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACQAA D4SgBRGEYPoNxgUAAWD6AAABAAAAAwAAEYTQAgAbfDAAAH8wAACcMAAAnjAAAMkwAADMMAAA1DAA ANYwAAAKMQAADDEAAIMyAACEMgAA4TIAAOQyAADsMgAAJjMAACgzAACtNAAArjQAAMo0AADMNAAA 3TUAAN41AAATNgAAFTYAAMA5AADB0QAA2TkAAN05AADl0QAA5jkAACM6AAAl0gAAxToAAMY6AADl 0gAA5joAAJQ8AACYPAAAND0AADU9AAA5PgAA0j4AAI9AAACQQAAAr0AAALJAAAC6QAAAu0AAAOVA AADnQAAAYEEAAGFBAACcQQAAn0EAAKhBAACpQQAA40EAAOVBAABFQwAARkMAAEJEAABFRAAATUQA AE5EAABcRAAAXkQAACFHAAAkRwAALEcAAC1HAABVRwAAWEcAAJ5HAACfRwAAm0gAAJxIAABjSgAA ZEoAAPnx+er55fnx+ere6vnl8fnq3urW6t7q+ere6vnl+fH56t7q3urW6t7q3ure6vnl+fH56t7q +eX58fnq3ur55fnx+er55fnx+ere6t7q0wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEQ0oo AAAPNQiBQ0ocAE9KBABRSgQADENKHABPSgUAUUoFAAAIT0oEAFFKBAAADENKHABPSgQAUUoEAAAP NQiBQ0ocAE9KAwBRSgMADENKKABPSgQAUUoEAE4LMQAADDEAAOEyAADiMgAA4zIAA00yAAAnMwAA KDMAABE1AAASNQAAFDYAABU2AACuNwAArzcAANo5AADb0QAA3DkAAN05AAAk0gAAJToAAGA7AABh OwAA4D4AA0E+AACwQAAAsUAAALJAAADmQAAA/QAAAAAAAAAAAAAAAPkAAAAAAAAAAAAAAAD9AAAA AAAAAAAAAAAA/QAAAAAAAAAAAAAAAPOAAAAAAAAAAAAAAADVAAAAAAAAAAAAAAAA/QAAAAAAAAAA AAAAAPkAAAAAAAAAAAAAAAD9AAAAAAAAAAAAAAAA+QAAAAAAAAAAAAAAAPӨAAAAAAAAAAAAAAAD5 AAAAAAAAAAAAAAAA/QAAAAAAAAAAAAAAAPkAAAAAAAAAAAAAAAD9AAAAAAAAAAAAAAAA/QAAAAAA AAAAAAAAAP0AAAAAAAAAAAAAAADvAAAAAAAAAAAAAAAA/QAAAAAAAAAAAAAAAPkAAAAAAAAAAAAA AAD9AAAAAAAAAAAAAAAA+QAAAAAAAAAAAAAAAP0AAAAAAAAAAAAAAAD5AAAAAAAAAAAAAAAA/QAA AAAAAAAAAAAAAPOAAAAAAAAAAAAAAADvAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKAAA+E oAURhGD6DcYFAAFg+gAAAwAAEYTQAgABAAAAG+ZAAADnQAAAnUEAAJ5BAACfQQAAoEEAAORBAADl QQAAQ0QAAEREAABFRAAAXUQAAF5EAAAiRwAAI0cAACRHAABWRwAAV0cAAFhHAABkSgAA/QAAAAAA AAAAAAAAAPkAAAAAAAAAAAAAAAD9AAAAAAAAAAAAAAAA/QAAAAAAAAAAAAAAAO8AAAAAAAAAAAAA AADvAAAAAAAAAAAAAAAA/QAAAAAAAAAAAAAAAPkAAAAAAAAAAAAAAAD9AAAAAAAAAAAAAAAAA/QAA AAAAAAAAAAAAAO8AAAAAAAAAAAAAAAD9AAAAAAAAAAAAAAAA+QAAAAAAAAAAAAAAAP0AAAAAAAAA

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AAAAAAEAKgABAAAA/v///wAAAADkLa8BAQAAAP/////wLa8B4P///wAAAAAXQAAAAAAAAAAAAAAA AAAA0AIAAAsIAAAPhHAIEYQw/U9KBQBRSgUAbygAAQBPAP//AQAAAAAA/0BIUCBMYXNlckpldCAZ TABMUFQx0gBIUFcASFAgTGFzZXJKZXQgNkwASFAgTGFzZXJKZXQgNkwAAAAAAAAAAAAAAAAAAAAA AAAABFAAlACIAB/vAAABAAEA6gpvCGQAAQABAFgCAQABAFgCAwAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAExQVDE6AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAyADIA+wQDAAAwAQABAP8PAAAA AAEAAAAAAAAAAQABAAAAAAAAAAAAAABTUDUxSFAgTGFzZXJKZXQgNkwAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAIAAAAAAAAAAABIUCBMYXNlckpldCA2TAAAAAAAAAAAAAAAAAAAAAAAA AAAEUACUAIgAH+8AAAEAAQDqCm8IZAABAAEAWAIBAAEAWAIDAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAATFBUMToAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABADIAMgD7BAMAADABAAEA/w8AAAAA AQAAAAAAAAABAAEAAAAAAAAAAAAAAFNQNTFIUCBMYXNlckpldCA2TAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAgAAAAAAAAAAAAGAAQCgPQAAoD0AACwarwEBAAEAoD0AAAAAAACfPQAA AAAAAAIQAAAAAAAAAGRGAACAAAAIAEAAAAYAAABHFpABAAACAgYDBQQFAgMEAwAAAAAAAAAAAAAA AAAAAAEAAAAAAAAAVABpAG0AZQBzACAATgBlAHcAIABSAG8AbQBhAG4AAAA1FpABAgAFBQECAQcG AgUHAAAAAAAAABAAAAAAAAAAAAAAAIAAAAAAUwB5AG0AYgBvAGwAAAAzJpABAAACCwYEAgICAgIE AwAAAAAAAAAAAAAAAAAAAAEAAAAAAAAAQQByAGkAYQBsAAAAQSaQAQAAAgsFBgICAgMCBIcCAAAA AAAAAAAAAAAAAACFAAAAAAAAAEEAcgBpAGEAbAAgAE4AYQByAHIAbwB3AAAAORaQAQAAAgIGAwUE BQIDBAcAAAAAAAAAAAAAAAAAAAATAAAAAAAAAEMARwAgAFQAaQBtAGUAcwAAAFMGkAEAAAAABAAA AAAAAAADAAAAAAAAAAAAAAAAAAAAAQAAAAAAAABXAFAAIABUAHkAcABvAGcAcgBhAHAAaABpAGMA UwB5AG0AYgBvAGwAcwAAACIABABBAIgYCQLQAgAAaAEAAAAAz6pIJs+qSCYAAAAAAgAAAAAALgoA AAo6AAABAB0AAAAEAAMAewAAAAAAAAAAAAAAAQABAAAAAQAAAAAAAADBIgkCgNEAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMgAAAAAAAAAAAAAAAAAAAEZHAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAA//8SAAAAAAAAABwAUgBlAHMAZQBhAHIAYwBoACAAYQBuAGQAIABUAHIAYQBpAG4AaQBuAGcA IABDAGUAbgB0AGUAcgAAAAAAAAAMAE4AYQBuAGMAeQAgAEEAcgBuAG8AbABkAAwATgBhAG4AYwB5 ACAAQQByAG4AbwBsAGQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA АААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААА AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAP7/AAAECgIAAAAAAAAAAAAAAAAAAAAAAAEAAADghZ/y+U9oEKuRCAAr J7PZMAAAAIABAAAQAAAAAQAAAIgAAAACAAAAkAAAAAMAAAC4AAAABAAAAMQAAAAFAAAA3AAAAACA AADoAAAACAAAAPwAAAAJAAAAFAEAABIAAAAgAQAACgAAADwBAAAMAAAASAEAAA0AAABUAQAADgAA AGABAAAPAAAAaAEAABAAAABwAQAAEwAAAHgBAAACAAAA5AQAAB4AAAAdAAAAUmVzZWFyY2ggYW5k IFRyYWluaW5nIENlbnRlcgAATWkeAAAAAQAAAABlc2UeAAAADQAAAE5hbmN5IEFybm9sZABUcmEe AAAAAQAAAABhbmMeAAAACwAAAE5vcm1hbC5kb3QAZB4AAAANAAAATmFuY3kgQXJub2xkAFRyYR4A AAACAAAAMgBuYx4AAAATAAAATWl jcm9zb2Z0IFdvcmQgOC4wAG5AAAAAAAAAAAAAAABAAAAAAAIp VpMLwAFAAAAAAAIpVpMLwAEDAAAAAQAAAAMAAAAuCgAAAwAAAAo6AAADAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA АААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААА AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA ААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААА AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA АААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААА AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

## WeaveTech Archive 0008

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## WeaveTech Archive 0008

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## WeaveTech Archive 0008


#### Abstract

AAAASQAAAEoAAABLAAAATAAAAE0AAABOAAAATwAAAFAAAABRAAAAUgAAAFMAAABUAAAAVQAAAFYA AABXAAAAWAAAAP7///9aAAAAWwAAAFwAAABdAAAAXgAAAF8AAABgAAAA/v///2IAAABjAAAAZAAA AGUAAABmAAAAZwAAAGgAAAD+////agAAAGsAAABsAAAAbQAAAG4AAABvAAAAcAAAAP7////9//// cwAAAP7////+/////v////////////////////////////////////////////////////9S AG8AbwB0ACAARQBuAHQAcgB5AAAAAKBknEsArJlLAAYABgABAAAAWJlLABoAAPAAAAAABulIABEQ GQAVEB4AFgAFAf//////////AwAAAAYJAgAAAAAAwAAAAAAAAEYAAAAAgLc1aZMLwAFAfmNpkwvA AXUAAACAAAAA+KtLADEAVABhAGIAbABlAAAAt9Fkl0sAFgAA8AAAAAAG7kgAUXVpY2sgXwCVAACg aERNALD2SwAAAAAA////f/9//380AAIA///////////////AAAWJwAAGuJJAAEAJwAAAAAAAABd 0UkA/////xCaSwAaAADwWQAAAAAQAAAREAIAVwBvAHIAZABEAG8AYwB1AG0AZQBuAHQAAABvbCBv dmVyIHdvcmsgc2V0dGluZyBhbmQgc2NoZWRkl0sAGgAA8BoAAgEFAAAA//////////8BEAEAUQAA oORNTQBwrkwABgAGAAEAAADP0kkAIAAuBLyaSwAAAAAAB7AAALq+RgAFAFMAdQBtAG0AYQByAHkA SQBuAGYAbwByAG0AYQB0AGkAbwBuAAAAAAAAACqjSwBRdWl jayBfAL0CAKCcfkoAKAACAQIAAAAE AAAA/////2Yw0C8wV0sAIJtLAL0AAKCAfksAdI1LAAAAAAD///9//3//f2EAAAAAEAAAAAAAAAUA RABvAGMAdQBtAGUAbgB0AFMAdQBtAG0AYQByAHkASQBuAGYAbwByAG0AYQB0AGkAbwBuAAAARJtL ADoAAPA4AAIB///////////////UBmxAQAAAAAAZABNT0RFTFBPFigAABcCAAD04kkAl+JEm0sA aQAAAAAQAADK9EgAAQBDAG8AbQBwAE8AYgBqAAAAe9Egm0sASgAA8AAAAACm1UYAAAAAAAAAQIRA hAAAAAAAAECEQIQAAAAAAAAAABIAAgEBAAAABgAAAP////8AAAAA//8AAAAAAAAgm0sAHgAA8AAA AAAAAAAAAAAAAAAAAAAAAAAAagAAAHkBAKBPAGIAagBlAGMAdABQAG8AbwBsAAAAAPAAAAAAytJG AABdAAAAXgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFgABAP//////////////wAAAAAAAAAA AAAAAAAAAAAAAAAAQH5jaZMLwAFAfmNpkwvAAQEAAACOnEsAJgAA8AAAAAC6LUoAAAAAAAIAAAAC AAAACgABAAAAJNNknEsAFgAA8AAAAADi0kYAUXVpY2sgXwBJAACgMKNLAJwqSgAAAAAA//////// ////////AAAAAFqwSwAGAAYAAQAAAI7SSQAZAACgrJlLAMyfSwAIAAgAAQAAAGScSwAyAADwAQAA AP7//////////////////////////////////////////////////////////////////// ////////////////////////////////////////////////////////////////////////// ///////////////////////////////////////////////////////////////////////// //////////////////////////////////////////////////////////////////////////  //////////////////////////////////////////////////////////////////////////// ////////////////////////////////////////////////////////////////////////// //////////////////////////////////////////////////////////////////////// /////////////////////////////////////////////////////////////////8BAP7/ AwoAAP////8GCQIAAAAAAMAAAAAAAABGGAAAAE1pY3Jvc29mdCBXb3JkIERvY3VtZW50AAoAAABN U1dvcmREb2MAEAAAAFdvcmQuRG9jdW1lbnQuOAD00bJxAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA АААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААААА AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA==


------=_NextPart_000_007C_01C00B61.8F9AE440--

Date: Mon, 21 Aug 2000 11:27:47 -0600
From: "Nancy Arnold" [nancy@selway.umt.edu](mailto:nancy@selway.umt.edu)
Subject: Re: AVL brake
Weavetech:
This was a big oops! I apologize--I was sending a work message and replied to the wrong message!

Nancy Arnold
-----Original Message-----
From: Nancy Arnold [nancy@selway.umt.edu](mailto:nancy@selway.umt.edu)
To: weavetech@topica.com [weavetech@topica.com](mailto:weavetech@topica.com)
Date: Monday, August 21, 2000 11:04 AM
Subject: Re: AVL brake
>Here are Word documents.

## WeaveTech Archive 0008

```
>
>Nancy
>
>-----Original Message-----
>From: Laura Fry <laurafry@netbistro.com>
>To: weavetech@topica.com <weavetech@topica.com>
>Date: Monday, August 21, 2000 10:21 AM
>Subject: Re: AVL brake
>
>
>>I usually disengage the brake as soon as I've completed a warp.
>>A string "sling" holds the tensioning arm when the cord is off.
>>
>>Laura Fry
>>who managed to complete the 15 yards of two shuttle weaving
>>after DH cobbled together a sheet metal bracket to replace the
>>compu-dobby I bracket that sheared off.....
>>Usually a shaft that slips out of the swing arm just means the
>>arm has shifted - in this case the Compu-dobby was hanging
>>from the back bracket!
>>
>>
>>T O P I C A The Email You Want. http://www.topica.com/t/16
>>Newsletters, Tips and Discussions on Your Favorite Topics
>>
>
>T O P I C A The Email You Want. http://www.topica.com/t/16
>Newsletters, Tips and Discussions on Your Favorite Topics
```

Date: Mon, 21 Aug 2000 10:49:38 -0700
From: [MargeCoe@concentric.net](mailto:MargeCoe@concentric.net)
Subject: Re: Pick Glass
>>a light) at B\&H photo online at www.bhphotovideo.com or by phone at
>Do these incorporate a gauge so that you can calculate threads per inch?
This company offers actual Linen Testers in addition to Loupes and theres a good illustration of one. It's the second one on their list (7x). It takes a bit of poking around--go to: Photo/Accessories/Lightboxes, loupes, slide viewers/Loupes \& Magnifiers Accessories/Magnifiers! There you'll find three linen testers.

Margaret

MargeCoe@concentric.net
Tucson, AZ USA
$\qquad$
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End of weavetech@topica.com digest, issue 360
From list-errors.700002588.0.701753111.004@boing.topica.com Tue Aug 22 06:48:26 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn. CS.Arizona.EDU (8.8.7/ 8.7.3) with ESMTP id GAA06284 for [ralph@localhost](mailto:ralph@localhost); Tue, 22 Aug 2000 06:48:23 -0700

Received: from bas
by fetchmail-4.5.8 IMAP

## WeaveTech Archive 0008

for <ralph/localhost> (single-drop); Tue, 22 Aug 2000 06:48:24 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA09144
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Tue, 22 Aug 2000 03:33:46-0700 (MST)
Received: from outmta009.topica.com (outmta009.topica.com [206.132.75.221])
by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA04260
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Tue, 22 Aug 2000 03:33:17 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 361
Date: Tue, 22 Aug 2000 03:31:20 -0700
Message-ID: [0.0.184382566-212058698-966940280@topica.com](mailto:0.0.184382566-212058698-966940280@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
ReAVL brake cord:
By bnathans@mindspring.com
Re: Pick Glass
By xlntthreadz@aol.com
Re: Pick Glass
By wheat@craftwolf.com
Re: ReAVL brake cord:
By rsblau@cpcug.org
Re: Fantasy Weave
By sarav@powercom.net
Re: ReAVL brake cord:
By penny_peters@hotmail.com
Re: W-mixing fibers
By cd.settle@att.net
re: magnifiers
By bnjkelly@theriver.com

Date: Mon, 21 Aug 2000 14:52:01 -0700
From: Barbara Nathans [bnathans@mindspring.com](mailto:bnathans@mindspring.com)
Subject: ReAVL brake cord:
Ruth says " two things together give you the maximum length in attaching the drum cord
to the spring. You do need to feel comfortable doing this, as you'll need to take this cord off \& put it back on every time you wind a warp on the sectional beam--at least that's the way they taught us at AVL--step one (after you've wound your spools, etc etc etc) is to unhook the drum cord so the beam turns freely."

You don't really need to unwind the whole cord--just ease it off the disk so as to take the tension off the spring. That will do it.

Barbara Nathans Bellport, Long Island, New York

## WeaveTech Archive 0008

From: XlntThreadz@aol.com
Subject: Re: Pick Glass
Julie's idea of the loupe just reminded me that Tasco/Tascam makes mini lighted microscopes. I bought mine for about $\$ 30$ ten years ago and it's just a bit bigger than a big butane cigarette lighter. It's so powerful it would probably be more useful to really see interlacement detail rather than count picks per inch.

Jan M ; ) [] \#\#\#\#\#\#\#\#\#\#\# who's winkin' \& weavin' at [xlntthreadz@aol.com](mailto:xlntthreadz@aol.com)

Date: Mon, 21 Aug 2000 17:28:30-0400
From: Wheat Carr [wheat@craftwolf.com](mailto:wheat@craftwolf.com)
Subject: Re: Pick Glass
At 13:40 8/21/2000-0700, you wrote:
$>J u l i e ' s$ idea of the loupe just reminded me that Tasco/Tascam makes mini $>$ lighted microscopes. I bought mine for about $\$ 30$ ten years ago and it's just
>a bit bigger than a big butane cigarette lighter. It's so powerful it would >probably be more useful to really see interlacement detail rather than count >picks per inch.
$>$

The feature of a true linen tester is that it has a a ruler engraved on all four sides so you can easily see an "inch" and then count threads.
$\qquad$

Date: Mon, 21 Aug 2000 17:22:07 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: ReAVL brake cord:
>You don't really need to unwind the whole cord--just ease it off the disk >so as to take the tension off the spring. That will do it.

Once I've unhooked mine from the spring, it eventually comes off the drum while I'm putting the warp on the beam. I've put a little sticky note on the upright next to the drum with a drawing of how to put the cord back around the drum.

Ruth

```
rsblau@cpcug.org
```

Arlington, VA USA

Date: Mon, 21 Aug 2000 17:49:15-0500
From: "Sara von Tresckow" [sarav@powercom.net](mailto:sarav@powercom.net)
Subject: Re: Fantasy Weave
FANTASY WEAVE means just that. When someone offers a pattern that doesn't fit into any existing category, this is a way of naming it and at the same time indicating that the weaver made it up.

Sara von Tresckow
sarav@powercom.net
Fond du Lac, WI

# WeaveTech Archive 0008 

Visit our Web Page
http://www2.powercom.net/~sarav

Date: Mon, 21 Aug 2000 15:44:46 -0700
From: "Penny Peters" [penny_peters@hotmail.com](mailto:penny_peters@hotmail.com)
Subject: Re: ReAVL brake cord:
Turns out the cord for the upper beam position is longer than for the lower. Sooooo, if anyone orders a sectional from AVL, best to let them know where you will put it! Penny

Date: Tue, 22 Aug 2000 02:06:05 +0000
From: CD.Settle@att.net
Subject: Re: W-mixing fibers
Anne,
I've mixed Jaggerspun Zephyr (50\% silk, 50\% wool) as the pattern warp and weft with $140 / 2$ reeled silk as the tabby warp and weft, which worked like a charm. Not sure how such a combination would work for $100 \%$ wool.

Clare Settle
$>\quad$ I am weaving a set of scarves, which are to be worn as decorative $>$ scarves hanging straight down the front of each person. I am using
$>20 / 2$ and $30 / 2$ wools as warp, and $20 / 3$ wool as weft in an overshot
$>$ structure. I haven't figured out the tabby yet, but for reasons of
$>$ color, I am wondering about using a fine cotton (50/3 or 30/2). I
> don't think I've run across any weavings done this way, but seems to me
$>$ that the cotton might add some needed "body" to the scarves, which I do $>$ not want to line. Lining is not a big deal to me, though, and I will $>$ line these for drape if required. I am doing a sample on some extra > warp (wound for that purpose), but am not clear on the total effect this $>$ mixture of fibers might have on a 6 foot length of 10 " wide scarf. $>\quad$ Anyone have any ideas???
> Thanks,
> Anne in Annandale
> arwells@erols.com
$>$
$>$ T O P I C A The Email You Want. http://www.topica.com/t/16
> Newsletters, Tips and Discussions on Your Favorite Topics
$\qquad$

Date: Tue, 22-Aug-2000 02:45:59 GMT
From: Jacquie Kelly [bnjkelly@theriver.com](mailto:bnjkelly@theriver.com)
Subject: re: magnifiers
I use a pick glass for checking thread counts, as well as pick-outs for weaving reproductions, but for looking at individual fibers or very closely woven fabrics I use a $30 x$ "microscope" with a swing-out $8 x$ lense. It is very compact ( $6 \times 2 x .75^{\prime \prime}$ ) has a light, and cost under $\$ 10$ on sale at Radio Shack. It is a good companion for a pick glass.

Jacquie
car weaver

## WeaveTech Archive 0008

```
End of weavetech@topica.com digest, issue 361
From list-errors.700002588.0.701753111.004@boing.topica.com Wed Aug 23 07:17:37 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id HAA07157 for <ralph@localhost>; Wed, 23 Aug 2000 07:17:32 -0700
Received: from bas
    by fetchmail-4.5.8 IMAP
    for <ralph/localhost> (single-drop); Wed, 23 Aug 2000 07:17:33 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
    by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA26339
    for <ralph@baskerville.cs.arizona.edu>; Wed, 23 Aug 2000 03:32:12 -0700 (MST)
Received: from outmta010.topica.com (outmta010.topica.com [206.132.75.222])
        by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA25915
        for <ralph@cs.arizona.edu>; Wed, 23 Aug 2000 03:32:01 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 362
Date: Wed, 23 Aug 2000 03:31:24 -0700
Message-ID: <0.0.585293480-951758591-967026684@topica.com>
X-Topica-Loop: 0
Status: R
-- Topica Digest --
    Re: mixing fibers
    By ryeburn@sfu.ca
    LeClerc looms
    By bruciec@trib.com
    RE: LeClerc looms
    By amurphy@cbcag.edu
    Re: looms
    By rsblau@cpcug.org
    Buying books on-line (longish)
    By ralph@cs.arizona.edu
    Re: Buying books on-line (longish)
    By Sgorao@aol.com
    Re: Buying books on-line (longish)
    By BOOKS@WOODENPORCH.COM
    Re: Buying books on-line (longish)
    By alcorn@pop.nwlink.com
    Re: Buying books on-line (longish)
    By teresaruch@msn.com
Date: Tue, 22 Aug 2000 07:46:14 -0700
From: Jo Anne Ryeburn <ryeburn@sfu.ca>
Subject: Re: mixing fibers
Joy Boutrop, in her workshop, showed us how to take advantage of different shrink rates in fibers. One sample we wove was an overshot with cotton warp and tabby weft with a wool pattern weft. After weaving this, we vigorously washed and dried the sample, and, predictably, the pattern weft fulled and
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## WeaveTech Archive 0008

shrank creating a planned texture. I am about to try out the idea with long floats of wool in an extended twill pattern.

Jo Anne
Jo Anne Ryeburn ryeburn@sfu.ca
--------------------------------
Date: Tue, 22 Aug 2000 09:29:42 -0600
From: Brucie [bruciec@trib.com](mailto:bruciec@trib.com)
Subject: LeClerc looms
My DD is becoming very interested in weaving and will soon be taking a class where she lives (I tried to create interest about 25 years ago but with no success at that time.) As I made my loom purchases a long time ago I am not really able to help her with suggestions. She has a limited budget and I have told her not to consider any loom with fewer than 8 H (or which can be converted later). I see in the recent Handwoven an ad from LeClerc which says that many modifications including computerization can be made on their looms. Has anyone had experience purchasing a *recent* LeClerc loom? Or know anything about these? Please reply off list. Thanks in advance for any help anyone can give.

Brucie

Date: Tue, 22 Aug 2000 10:35:26-0500
From: "Murphy, Alice" [amurphy@cbcag.edu](mailto:amurphy@cbcag.edu)
Subject: RE: LeClerc looms
Visit http://www.leclerclooms.com
They have picture, etc and specifications. They have a new table loom the voyager which comes as either 4 or 8 harnesses, plus the rest.
Alice in MO, lusting after 8 harnesses!

Date: Tue, 22 Aug 2000 12:18:46-0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Re: looms
If your daughter wants the most loom for her limited budget, urge her (after she's done her research as which loom she wants) to visit the Weavers \& Spinners Housecleaning Pages:
[http://homepages.together.net/~kbruce/kbbspin.html](http://homepages.together.net/~kbruce/kbbspin.html)
She will find there almost every type of loom, all "previously owned" and at great prices.

Ruth
rsblau@cpcug.org
Arlington, VA USA
$\qquad$
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Date: Tue, 22 Aug 2000 15:34:50 -0700
From: Ralph Griswold [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu)

## WeaveTech Archive 0008

Subject: Buying books on-line (longish)
In the past couple of years, I've tried to find weaving books that I presumed were out of print (trade books average about 18 months in print these days).

The two books relevant to this message are Bushman's Handweaving: An Anotated Bibliography and Wilson and Jackson's Textile Art Index: 1950-1987.

I first tried the usual on-line book search services. No luck. Then on a lark (cases separated a year or so), I tried Amazon. In both cases, Amazon said it probably could get the books, although it would take a while. And in both cases, it did.

After I got the Buschmann book from Amazon, I saw an offering of a used copy for considerably more than I paid from Amazon for a new one.

I just got a new copy of the Textile Arts Index from Amazon for $\$ 28$. While waiting, I'd seen less than perfect used copies offered for $\$ 60$.

Unfortunately, when I tried Barnes and Nobel on-line for several books they said they could get but Amazon said were out of print, it turned out they *were* out of print but it took a couple of months for that to surface. Worse, $B \& N$ did not then remove them from its database.

I've not tried Borders.
Anyway, if you're looking for an elusive, not-too-old book on-line and can't find a used copy at a reasonable price, try looking for it as a book still in print.

Incidentally, if you're annoyed by how long it takes to get books from some publishers, blame the publisher/distributor. Some small outfits seem not to care much about selling their stock -- aka poor business practices.

Oh, and unless you want to pay extra, don't have Amazon or B\&N look for an out-of-print book for you. They just do what you could in on-line searching and then add a mark-up.

```
Ralph
```

Date: Tue, 22 Aug 2000 18:32:04 EDT
From: Sgorao@aol.com
Subject: Re: Buying books on-line (longish)
In a message dated 8/22/00 6:23:44 PM Eastern Daylight Time, ralph@cs.arizona.edu writes:
> Oh, and unless you want to pay extra, don't have Amazon or B\&N look
$>$ for an out-of-print book for you. They just do what you could in
$>$ on-line searching and then add a mark-up.
$>$
> Ralph
Anyone searching for a book should also always try the auctions from time to time. I bought a needlework book that Amazon wanted $\$ 200$ because it was out of print and I ultimately bought it on e-Bay for $\$ 70$ !

Sondra

# WeaveTech Archive 0008 

Date: Tue, 22 Aug 2000 20:54:57 -0500
From: Lois [books@woodenporch.com](mailto:books@woodenporch.com)
Subject: Re: Buying books on-line (longish)
Ralph Griswold wrote:
$>$ In the past couple of years, I've tried to find weaving books that I > presumed were out of print (trade books average about 18 months in > print these days).
$>$
$>$
Publishers must pay an inventory tax on books in their warehouses at the end of the year. If a book doesn't move it is remainder. So if you see a book that you want, buy it when you see it.

Museums and University Presses do not have to pay an inventory tax, so their books can stay in print for ever. I've seen books that have stayed in print for over 20 years (the interest most likely was small in relation to the number of books printed). So, if you want a book that was publlished by either a University Press or a Museum I would suggest that you contact them directly instead of trying an on-line search service.

Museums usually print a small run and may not have a title for very long. If the book is for a traveling exhibition you can try the different museums on the exhibitions tour and sometimes find a stray copy.
Lois
--
Lois Mueller
Wooden Porch Books
books@woodenporch.com

Date: Tue, 22 Aug 2000 18:16:55 -0700
From: Alcorn [alcorn@pop.nwlink.com](mailto:alcorn@pop.nwlink.com)
Subject: Re: Buying books on-line (longish)
$>$ In the past couple of years, I've tried to find weaving books that I >presumed were out of print (trade books average about 18 months in >print these days).

Amazon get a lot of their used or out of print books from Powell's in Portland, Oregon: www.powells.com Powell's is probably the biggest single book store in the country. It handles both new and used books. Fabulous place to visit if you are ever in Portland. I cna't remember the phone number, but it is on West Burnside.

Francie Alcorn

Date: Wed, 23 Aug 2000 00:23:32-0700
From: "teresaruch" [teresaruch@email.msn.com](mailto:teresaruch@email.msn.com)
Subject: Re: Buying books on-line (longish)
A friend has been selling textile books on-line at Abebooks.com and says that Amazon has bought used books from her to resale to people who have requested them. So lots of places to look. Teresa

## WeaveTech Archive 0008

```
----- Original Message -----
From: <Sgorao@aol.com>
To: <weavetech@topica.com>
Sent: Tuesday, August 22, 2000 3:33 PM
Subject: Re: Buying books on-line (longish)
> In a message dated 8/22/00 6:23:44 PM Eastern Daylight Time,
> ralph@cs.arizona.edu writes:
>
> > Oh, and unless you want to pay extra, don't have Amazon or B&N look
> > for an out-of-print book for you. They just do what you could in
> > on-line searching and then add a mark-up.
> >
> > Ralph
>
> Anyone searching for a book should also always try the auctions from time
to
> time. I bought a needlework book that Amazon wanted $200 because it was
out
> of print and I ultimately bought it on e-Bay for $70!
>
> Sondra
>
> T O P I C A The Email You Want. http://www.topica.com/t/16
> Newsletters, Tips and Discussions on Your Favorite Topics
>
End of weavetech@topica.com digest, issue 362
From list-errors.700002588.0.701753111.004@boing.topica.com Thu Aug 24 07:04:57 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id HAA00678 for <ralph@localhost>; Thu, 24 Aug 2000 07:04:54-0700
Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Thu, 24 Aug 2000 07:04:54 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA21835
for <ralph@baskerville.cs.arizona.edu>; Thu, 24 Aug 2000 03:32:13-0700 (MST)
Received: from outmta009.topica.com (outmta009.topica.com [206.132.75.221]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA17077
for <ralph@cs.arizona.edu>; Thu, 24 Aug 2000 03:32:06-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 363
Date: Thu, 24 Aug 2000 03:31:27 -0700
Message-ID: <0.0.455416678-212058698-967113087@topica.com>
X-Topica-Loop: 0
Status: R
-- Topica Digest --
Re: out of print books
By ingrid@fiberworks-pcw.com
Re: Buying books on-line (longish)
By BOOKS@WOODENPORCH.COM
Re: Buying books on-line (longish)
By sarav@powercom.net
```


## WeaveTech Archive 0008

Re: oatmeal raisin and chocolate chip
By xlntthreadz@aol.com
Re: Powell's Books
By laurafry@netbistro.com
Re: oatmeal raisin and chocolate chip
By Sgorao@aol.com
Best Handwoven ever
By rsblau@cpcug.org
ADMIN: cookies
By rsblau@cpcug.org

Date: Wed, 23 Aug 2000 10:01:20-0400
From: Ingrid Boesel [ingrid@fiberworks-pcw.com](mailto:ingrid@fiberworks-pcw.com)
Subject: Re: out of print books
One of the members of this list, Lois Mueller, Wooden Porch Books [books@woodenporch.com](mailto:books@woodenporch.com) sells out of print textile books too. So try contacting her for any books that may be hard to find.

She was modest and did not tell you herself, so I am doing it. <G> Ingrid
Ingrid Boesel, the weaving half of Fiberworks PCW
Visit us at: http://www.fiberworks-pcw.com
Email: ingrid@fiberworks-pcw.com

Date: Wed, 23 Aug 2000 15:16:11-0500
From: Lois [books@woodenporch.com](mailto:books@woodenporch.com)
Subject: Re: Buying books on-line (longish)
teresaruch wrote:
> A friend has been selling textile books on-line at Abebooks.com and says
$>$ that Amazon has bought used books from her to resale to people who have
$>$ requested them. So lots of places to look. Teresa
$>-$
Teresa,
That is why buying books from Amazon is more expensive than buying directly from a book dealer. I, too sell books to Amazon at the same price that I would sell to anyone. Amazon just marks the book up and resells it.

Addall.com is a great place to look for used or new books. They search all of the book sites (Abebooks, alibris, bibliofind, etc.). It's a one stop search service. I use it all the time. Great place. Lois
--
Lois Mueller
Wooden Porch Books
books@woodenporch.com

## WeaveTech Archive 0008

Date: Wed, 23 Aug 2000 17:34:35-0500
From: "Sara von Tresckow" [sarav@powercom.net](mailto:sarav@powercom.net)
Subject: Re: Buying books on-line (longish)
I've had very good success finding out of print titles that I'd like to have. The book market is as vast as dealing with antiques or any other item that isn't traded at WalMart.
You just have to explore, compare prices and availability and above all NOT RELY ON JUST ONE SOURCE.
And don't ever think that because you didn't find your title this time around that it isn't there. I've had to search for months for some of the rarer titles - booksellers lists change all the time.
Also, try any used bookseller who happens along wherever you're traveling once in a while there are great finds.
Sara von Tresckow
sarav@powercom.net
Fond du Lac, WI
Visit our Web Page
http://www2.powercom.net/~sarav
---------------------------------
Date: Wed, 23 Aug 2000 19:12:59 EDT
From: XlntThreadz@aol.com
Subject: Re: oatmeal raisin and chocolate chip
I haven't dealt with Abebooks so I can't say anything one way or the other but I was a bit alarmed when I visited their site for a very quick (1 minute) look and found out shortly thereafter that they had planted about a dozen cookies in my computer. Part of me thinks cookies might not be such a bad idea especially for fiber artists who constantly need to remind the public that we actually exist. But the general idea that someone can snoop on me without my permission or knowledge is bothersome so I deleted the cookies and their site from my "favorites" list. Most of the cookies looked like they had absolutely nothing to do with me (like "real estate".) I prefer my cookies in oatmeal raisin and chocolate chip.

Jan M ; ) [] \#\#\#\#\#\#\#\#\#\#\# who's winkin' \& weavin' at [xlntthreadz@aol.com](mailto:xlntthreadz@aol.com)

Date: Wed, 23 Aug 2000 15:06:23 -0700
From: Laura Fry [laurafry@netbistro.com](mailto:laurafry@netbistro.com)
Subject: Re: Powell's Books
I second the motion to visit Powell's if you are in the
Portland area. I found a copy of Shirley Held's Weaving book
(used) to replace my copy which went walkabout after a
beginning weaving class. : ( If you love books, you'll love
Powell's! (Thanks Miriam and Teresa for insisting!!!) :D
Laura Fry
http://laurafry.com

Date: Wed, 23 Aug 2000 20:37:22 EDT
From: Sgorao@aol.com
Subject: Re: oatmeal raisin and chocolate chip
In a message dated 8/23/00 7:14:16 PM Eastern Daylight Time, xlntthreadz@aol.com writes:

## WeaveTech Archive 0008

> so I deleted the cookies and
> their site from my "favorites" list. Most of the cookies looked like they $>$ had absolutely nothing to do with me (like "real estate".) I prefer my > cookies in oatmeal raisin and chocolate chip.

Jan,
How do you check for unwanted "cookies" in your computer and get rid of them?

## Sandi

Date: Wed, 23 Aug 2000 20:31:00 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: Best Handwoven ever
I just received my fall issue of Handwoven, and I have to say it's the best I've seen in the 9 or so years I've been subscribing. The theme centers around adapting music to weaving in various ways--not just the obvious one of using the notes on a muscial staff as the basis for a weave draft. I think my favorite is the explanation of change ringing and adapting it to weaving (anyone who's read \& loved Sayers' "Nine Tailors" will love love this article, too). Doramay's use of the musical staff as the basis for a block design is also an interesting approach. Wonder if I could do something w/ the Bach Suites for Unaccompanied Cello that so plagued my teen years.

The whole issue is great fun. Congrats to Madelyn \& friends--super issue!
Ruth
rsblau@cpcug.org
Arlington, VA USA

Date: Wed, 23 Aug 2000 20:35:29 -0400
From: Ruth Blau [rsblau@cpcug.org](mailto:rsblau@cpcug.org)
Subject: ADMIN: cookies
>How do you check for unwanted "cookies" in your computer and get rid of them?
Let me nip this one in the bud. It's all too easy for email lists to get sidetracked into discussions about computers. After all, that's the one thing besides weaving that we all have in common--computers. However, our list guidelines allow discussions of computers only in the context of weaving--CAD and CAW.

Please take the discussion of cookies off list.
Thanks for your cooperation!
Ruth
co-admin, WeaveTech
rsblau@cpcug.org
Arlington, VA USA

## WeaveTech Archive 0008

End of weavetech@topica.com digest, issue 363
From list-errors.700002588.0.701753111.004@boing.topica.com Fri Aug 25 06:43:06 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id GAA01388 for [ralph@localhost](mailto:ralph@localhost); Fri, 25 Aug 2000 06:43:04 -0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Fri, 25 Aug 2000 06:43:04 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA22107
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Fri, 25 Aug 2000 03:32:30 -0700 (MST)
Received: from outmta003.topica.com (outmta.topica.com [206.132.75.200])
by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA06521
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Fri, 25 Aug 2000 03:32:29 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 364
Date: Fri, 25 Aug 2000 03:31:23 -0700
Message-ID: [0.0.374746798-951758591-967199483@topica.com](mailto:0.0.374746798-951758591-967199483@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
Re: Digest for weavetech@topica.com, issue 363
By bnathans@mindspring.com
Re: oatmeal raisin and chocolate chip By xlntthreadz@aol.com

Re: Best Handwoven ever By xlntthreadz@aol.com

Date: Thu, 24 Aug 2000 16:16:41 -0700
From: Barbara Nathans [bnathans@mindspring.com](mailto:bnathans@mindspring.com)
Subject: Re: Digest for weavetech@topica.com, issue 363
Boy, did my husband the physicist just impress me!!
The AVL has 4 cross beams which are 2 or $3^{\prime \prime \prime}$ in diameter metal cylinders enclosing a wooden beam that has a metal prong embedded in the end of the beam ,. This prong sticks out just enough past the metal case to enable you to hang the beam from a support. Well, I just realized that on one of them , the wooden beam was too far to one side, and the prong had disappeared inside the metal tube, so that I was having trouble hanging it. I tried banging the wood in with a small hammer, but it wasn't budging.

Bob said he would try heating the outer metal casing until the metal expanded, and them he'd try pulling the wood beam with attached prongs to its centered location. (Meanwhile me muttering in the background " Are you sure?? Don't pull the prong out," Shouldn't you heat the whole thing?" and other wifely words of encouragement (or doubt).

Well. it worked!!
The laws of physics to the rescue!!
Barbara Nathans Bellport, Long Island, New York

## WeaveTech Archive 0008

Date: Thu, 24 Aug 2000 21:50:57 EDT
From: XlntThreadz@aol.com
Subject: Re: oatmeal raisin and chocolate chip
I've already had several requests, so if anyone else wants to know, I can't reproduce the accident that got me into some sort of $\log$ manager that listed every site I'd visited since I got the computer nearly a year ago. I may have done it through "My Files" or the down button on the right side of the "Go" window. We'll have to ask Vera or someone else who really knows computers.

Jan M ; ) [] \#\#\#\#\#\#\#\#\#\#\# who's winkin' \& weavin' at [xlntthreadz@aol.com](mailto:xlntthreadz@aol.com)

Date: Thu, 24 Aug 2000 21:52:53 EDT
From: XlntThreadz@aol.com
Subject: Re: Best Handwoven ever
Madelyn did the music thing about 1994 in Weaver's and there was one lovely interpretation of a Bach piece.

Jan M ; ) [] \#\#\#\#\#\#\#\#\#\#\# who's winkin' \& weavin' at [xlntthreadz@aol.com](mailto:xlntthreadz@aol.com)

End of weavetech@topica.com digest, issue 364
From list-errors.700002588.0.701753111.004@boing.topica.com Sat Aug 26 07:31:38 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id HAA02204 for [ralph@localhost](mailto:ralph@localhost); Sat, 26 Aug 2000 07:31:36-0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Sat, 26 Aug 2000 07:31:37 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA20971
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Sat, 26 Aug 2000 03:32:10-0700 (MST)
Received: from outmta006.topica.com (outmta006.topica.com [206.132.75.208])
by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA24178 for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Sat, 26 Aug 2000 03:32:08-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 365
Date: Sat, 26 Aug 2000 03:31:21 -0700
Message-ID: [0.0.916506910-951758591-967285881@topica.com](mailto:0.0.916506910-951758591-967285881@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
Re: AVL beams
By weevings@juno.com
Skeleton tie on countermarche problem By snailtrail97@hotmail.com

Date: Fri, 25 Aug 2000 21:41:20 -0400
From: Bonni Backe [weevings@juno.com](mailto:weevings@juno.com)

## WeaveTech Archive 0008

Subject: Re: AVL beams
Barbara, I had the same thing happen, and do not own a physicist, so I just whacked away at it until I got the wooden "plug" back out where it needs to be. At the suggestion of Tom at AVL, I drilled holes near both ends of the metal tube, and put a screw in through to the wooden plug, so such manuevers are never again necessary. Probably your physicist thought of this, too, but anyone else might want to check their older AVLs and add the screws as a preventive measure. I think Tom said the newer ones are redesigned so that doesn't happen.

Bonni, now of Jersey City, NJ *and* (To Be Announced), NH!
Anyone know of a weaver-friendly apt. or house available for rent near Concord?

Weevings Miniature Handwovens
http://weevings.com

Date: Sat, 26 Aug 2000 07:03:40 GMT
From: "Martin Weatherhead" [snailtrail97@hotmail.com](mailto:snailtrail97@hotmail.com)
Subject: Skeleton tie on countermarche problem
Not having tried a skeleton tie up before I thought I would try one doing a lace huck, with pedals 1 and 8 doing tabby and pedals 2-7 lifting the pattern shafts.

BUT nothing balanced and the shafts refused to return when my foot came off the pedals.

I can tie everything to rise and fall, but then that losses the skeleton ability to use more than one pedal. Is it only possible with a jack type loom?

Help please!
Martin
Snail Trail Handweavers
Get Your Private, Free E-mail from MSN Hotmail at http://www.hotmail.com

End of weavetech@topica.com digest, issue 365
From list-errors.700002588.0.701753111.004@boing.topica.com Sun Aug 27 07:18:43 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id HAA02887 for [ralph@localhost](mailto:ralph@localhost); Sun, 27 Aug 2000 07:18:41 -0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Sun, 27 Aug 2000 07:18:41 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5]) by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA29810 for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Sun, 27 Aug 2000 03:31:51-0700 (MST)
Received: from outmta011.topica.com (outmta011.topica.com [206.132.75.228]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA05210 for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Sun, 27 Aug 2000 03:31:38-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 366
Date: Sun, 27 Aug 2000 03:30:54 -0700

# WeaveTech Archive 0008 

Message-ID: [0.0.595389530-212058698-967372254@topica.com](mailto:0.0.595389530-212058698-967372254@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
Re: Skeleton tie on countermarche problem By akabuse@gpu.srv.ualberta.ca

Re: Skeleton tie on countermarche problem By kerstin.froberg@swipnet.se

Date: Sat, 26 Aug 2000 19:59:28 -0700
From: adolf buse [akabuse@gpu.srv.ualberta.ca](mailto:akabuse@gpu.srv.ualberta.ca)
Subject: Re: Skeleton tie on countermarche problem
Martin:
I, too, have a countermarche loom - now 10 shafts and 10 treadles since I added on two of everything. If you have a Glimakra, you may be able to add two treadles which makes tabby a lot easier.

I have looked at the method of doing a skeleton tie-up for summer and winter, although I haven't actually done it. I believe that you must have at least one up and one down tied on each treadle to make it work. In summer and winter, you tie shaft one against shaft two on two treadles and then each pattern shaft against all the other pattern shafts. Obviously, you can't use two together unless you tie them that way. Perhaps you could select out combinations you want, tieing at least one up and one down and work more than one treadle that way - e.g. 6 against 7 and 3 against 4 would treadle together. Someone else will probably shoot me down but it is an interesting problem and I, too, would like to see some discussion of it.
There are a lot of AVL users out there but you are the first countermarche I have seen since I joined.

By the way, I should introduce myself, I guess. My name is Kathy Buse, and I live in Edmonton, Canada. I spin even more enthusiastically than I weave and would love to hear from people who have 10 shafts and know what to do with them all at once.

At 12:03 AM 8/26/2000 -0700, you wrote:
$>$ Not having tried a skeleton tie up before I thought I would try one doing a $>$ lace huck, with pedals 1 and 8 doing tabby and pedals 2-7 lifting the >pattern shafts.
$>$
>BUT nothing balanced and the shafts refused to return when my foot came off >the pedals.
$>$
$>$ I can tie everything to rise and fall, but then that losses the skeleton >ability to use more than one pedal. Is it only possible with a jack type >loom?
$>$
>Help please!
$>$
>Martin
>Snail Trail Handweavers
$>$ >Get Your Private, Free E-mail from MSN Hotmail at http://www.hotmail.com
$>$
$>$
>T O P I C A The Email You Want. http://www.topica.com/t/16

# WeaveTech Archive 0008 

>Newsletters, Tips and Discussions on Your Favorite Topics $>$
--------------------------------
Date: Sun, 27 Aug 2000 08:20:42 +0200
From: Kerstin Froberg [kerstin.froberg@swipnet.se](mailto:kerstin.froberg@swipnet.se)
Subject: Re: Skeleton tie on countermarche problem
You can tie up a "leveling treadle". This can be weighted so you don't have to step on it every time you want to level the shafts. Some of my drawloom owning friends have added an extra treadle just for this purpose.
An other solution I have seen on countermarches with drawloom attachments is to use conterweights instead of one of the sets of lamms. Not being very interested in "drawn work" I haven't paid much attention to the details, but I'm sure it can be used for every kind of weaving where you don't want the full function of the countermarch action...
> Not having tried a skeleton tie up before I thought I would try one doing a
> lace huck, with pedals 1 and 8 doing tabby and pedals 2-7
lifting the
> pattern shafts.
$>$
> BUT nothing balanced and the shafts refused to return when my
foot came off
> the pedals.
Kerstin in Sweden

End of weavetech@topica.com digest, issue 366
From list-errors.700002588.0.701753111.004@boing.topica.com Mon Aug 28 07:03:40 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/
8.7.3) with ESMTP id HAA03229 for [ralph@localhost](mailto:ralph@localhost); Mon, 28 Aug 2000 07:03:37-0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Mon, 28 Aug 2000 07:03:37 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA25877
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Mon, 28 Aug 2000 03:31:56-0700 (MST)
Received: from outmta011.topica.com (outmta011.topica.com [206.132.75.228]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA16765 for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Mon, 28 Aug 2000 03:31:41-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 367
Date: Mon, 28 Aug 2000 03:30:59 -0700
Message-ID: [0.0.788086322-951758591-967458659@topica.com](mailto:0.0.788086322-951758591-967458659@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
Re: Addall.com
By janee@softweave.com
Skeleton tieup

# WeaveTech Archive 0008 

By ingrid@fiberworks-pcw.com
RE: Skeleton tieup
By judie@eatough.net
Re: indefinite warp
By xlntthreadz@aol.com
Re: indefinite warp apologies
By xlntthreadz@aol.com
re: Countermarche tie-up problem
By RBH@TELUS.NET

Date: Sun, 27 Aug 2000 07:52:30 -0400
From: Jane Eisenstein [janee@softweave.com](mailto:janee@softweave.com)
Subject: Re: Addall.com

## >from Lois Mueller

>Addall.com is a great place to look for used or new books. They
>search all of the book sites (Abebooks, alibris, bibliofind, etc.). >It's a one stop search service. I use it all the time. Great place.

You are so right! I just went looking for "The Silk Weaver" that was mentioned in the last Handwoven as only being available from Barnes and Noble. Currently, Barnes and Noble which lists it as a special order. However, Addall. com shows it as being available quicker and for almost the same cost from England.

Jane


Date: Sun, 27 Aug 2000 12:20:54 -0400
From: Ingrid Boesel [ingrid@fiberworks-pcw.com](mailto:ingrid@fiberworks-pcw.com)
Subject: Skeleton tieup
Not having actually used a CM loom for 15 years, and then only briefly, I think I am right in saying this.
to use a skeleton tieup, you must use the loom as a sinking shed, or a rising shed loom only. If you have each pedal tied up to raise and lower, then nothing will move if you press two pedals.

For Summer and Winter, you would tie
treadle 1 to shafts 1,2 for tabby a
treadle 2 to all the rest of the shafts for tabby $b$
treadle 3 to shaft 1 for tiedown 1, no ties at all on pattern shafts
treadle 4 to shaft 2 for tiedown 2, no ties at all on pattern shafts treadle 5 to 16 to just pattern shafts, no ties at all on shaft 1 or 2 .

Treadle 1 and 2 could be tied as CM with rising and sinking sheds, but if the rest are tied as single action, then the shed on those may not be terrific and you may have to adjust the height of the shafts to give a better shed. If this is done, then the CM action would not work as well and you get a small shed for the tabbies.

Try it and see

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By the way, if you are using tabby alternately with pattern wefts, then a tieup that uses one foot only for the tabby and the other only for the pattern is much easier to work. In this case even more so since you would need to work the pattern with one foot and the tieup with the other at the same time. then switch to a tabby.
Tabby treadles on the each end make little sense in 4 shaft weaving and even less in multishaft.

How is that for starting a discussion <G>
Ingrid
Ingrid Boesel, the weaving half of Fiberworks PCW
Visit us at: http://www.fiberworks-pcw.com Email: ingrid@fiberworks-pcw.com

Date: Sun, 27 Aug 2000 11:36:17 -0600
From: "Judie Eatough" [judie@eatough.net](mailto:judie@eatough.net)
Subject: RE: Skeleton tieup
I have woven using CM loom -- drawloom with skeleton tieups, counterweights, and a leveling treadle. (mine is has every shaft tied to sink). But my experience is not extensive.

For something like S\&W, I would try the following tieup.
1,2 rising, everything else sinking
everything else rising, 1,2 sinking
That would take care of the tabby treadles.
Then 1 rising, 2 sinking
and 2, rising, 1 sinking.
Those would be the tie down treadles
Then the pattern treadles could be tied pattern shafts to rise, pattern shafts to sink (no 1 or 2 ties)

Then to weave a pattern pick you would need to step on a pattern treadle and a tie down treadle.

This would save treadles after the second pattern treadle. So two different pattern 'blocks' would require 6 treadles to weave. But 3 pattern 'blocks' would only require 7 treadles to weave. So with 8 treadles you could weave 4 pattern blocks and with 10 you could weave 6 pattern blocks.

Judie

Date: Sun, 27 Aug 2000 15:14:50 EDT
From: XlntThreadz@aol.com
Subject: Re: indefinite warp
My suggestion for getting more than one type of item out of a single warp, is to thread the loom to rosepath or some other system with a lot of possibilities and vary the treadling and the weft. I also do a lot of tying-on, which saves time and expands the possibilities. I've also used the pattern as an allover design on one piece and as a spot design in another. I once threaded the "Baroque Twill Table Runner" from one of the Handwoven Design Collections. By combining all of the above techniques I got a peach

## WeaveTech Archive 0008

and black kimono top, a white, blue, purple and metallic piano scarf, a white and blue Advent stole, several bookcovers and room to experiment with leftover yarns. I'm the only one who can tell they all came from the same warp. Tying on, for those who don't warp sectionally and don't have a long warping mill, gives you the advantages of longer warps without the disadvantages of the long warp "snarl factor" or the necessity of having to buy bigger, more expensive equipment.

Once, as a love/endurance for weaving test, I wanted to see how much I could weave in a certain period of time. With both full-time and part-time jobs plus taking a few credits at the university for recertification, I managed to weave 100 yards of cloth between Thanksgiving and Christmas. I only threaded the loom once and after I discovered how much I liked doing it this way, added on to go the full width of the loom (30"). I just tied on and wove the whole way. Sometimes if I ran out of weft before I ran out of weavable warp, I'd use a compatible yarn and sometimes end up with pieces just big enough and similar enough to provide trim or pockets. Only towards the end of that 100 yards did the tension problems and the itch to do something else set in.

Plus, you can use the thrums for thrum angels or, if the fibers are really color compatible, use them like Prism "Wild Stuff" in a triangle shawl or funky knitted item.

Jan M ; ) [] \#\#\#\#\#\#\#\#\#\#\# who's winkin' \& weavin' at [xlntthreadz@aol.com](mailto:xlntthreadz@aol.com)

Date: Sun, 27 Aug 2000 15:16:05 EDT
From: XlntThreadz@aol.com
Subject: Re: indefinite warp apologies
Sorry, that message was meant for another list.
Jan M ; ) [] \#\#\#\#\#\#\#\#\#\#\# who's winkin' \& weavin' at [xlntthreadz@aol.com](mailto:xlntthreadz@aol.com)

Date: Sun, 27 Aug 2000 12:31:47-0700
From: "Chickadee Creek Studios" [rbh@telus.net](mailto:rbh@telus.net)
Subject: re: Countermarche tie-up problem
I have a countermarche loom and not too long ago had trouble with a huck lace tie up where treadles would hang in the air and not return to their positions.
The lace tie up had 2 shafts up against 6 down, so there was an uneven distribution of weight. ( I had 6 pattern treadles, plus 2 for tabby.) After talking with John Low of Woolhouse Tools, I learned that the weight of the shafts, heddles and lams "counter" the weight of the treadle. Ideally a balanced tie-up involves 4 against 4 ( in an 8 shaft weave) What I did to solve this problem is to tie up extra treadles to the 'lighter' lams and counter the weight. I have 16 treadles with which to do this, and used 10 for the weave structure plus another 4 for balancing the weight factor. Another way is to hang weights off the lighter lams to achieve the same result.
Susan

End of weavetech@topica.com digest, issue 367
From list-errors.700002588.0.701753111.004@boing.topica.com Tue Aug 29 06:34:23 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
Received: from localhost (ralph@localhost [127.0.0.1]) by saturn.CS.Arizona.EDU (8.8.7/

## WeaveTech Archive 0008

8.7.3) with ESMTP id GAA04129 for [ralph@localhost](mailto:ralph@localhost); Tue, 29 Aug 2000 06:34:21-0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Tue, 29 Aug 2000 06:34:22 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA29336
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Tue, 29 Aug 2000 03:32:49-0700 (MST)
Received: from outmta014.topica.com (outmta014.topica.com [206.132.75.231])
by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA06548
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Tue, 29 Aug 2000 03:32:43-0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com
Subject: Digest for weavetech@topica.com, issue 368
Date: Tue, 29 Aug 2000 03:31:31 -0700
Message-ID: [0.0.367315820-212058698-967545091@topica.com](mailto:0.0.367315820-212058698-967545091@topica.com)
X-Topica-Loop: 0
Status: R
-- Topica Digest --
Jim Ahrens loom
By bmoody@jps.net

Date: Mon, 28 Aug 2000 15:42:06 -0700
From: "Beryl Moody" [bmoody@jps.net](mailto:bmoody@jps.net)
Subject: Jim Ahrens loom
My SO and I are helping a brand new weaver to get started weaving. Our problem is that she purchased a Jim Ahrens loom -- vintage?? We have worked on redoing the tie ups (on the side of the loom) but haven't really found a convenient pattern . Also, there are some mini lams (they may be part if a spring tensioning system) that appear to have originally been tied to the various shafts (it is an eight shaft loom). What we are looking for is some documentation on the loom and its features and any advice from others that may have one of these looms. The previous weaver that sold the loom only used it for plain weave -- this seems to be a waste to me and we would dearly love to get it in good working order so that this new weaver doesn't get totally turned off by the process of weaving.

Beryl Moody
bmoody@jps.net

End of weavetech@topica.com digest, issue 368
From list-errors.700002588.0.701753111.004@boing.topica.com Thu Aug 31 06:10:38 2000
Return-Path: list-errors.700002588.0.701753111.004@boing.topica.com
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8.7.3) with ESMTP id GAA01547 for [ralph@localhost](mailto:ralph@localhost); Thu, 31 Aug 2000 06:10:37 -0700

Received: from bas
by fetchmail-4.5.8 IMAP
for <ralph/localhost> (single-drop); Thu, 31 Aug 2000 06:10:37 MST
Received: from optima.cs.arizona.edu (optima.CS.Arizona.EDU [192.12.69.5])
by baskerville.CS.Arizona.EDU (8.9.1a/8.9.1) with ESMTP id DAA07597
for [ralph@baskerville.cs.arizona.edu](mailto:ralph@baskerville.cs.arizona.edu); Thu, 31 Aug 2000 03:32:15-0700 (MST)
Received: from outmta008.topica.com (outmta008.topica.com [206.132.75.216]) by optima.cs.arizona.edu (8.9.3/8.9.3) with SMTP id DAA17506
for [ralph@cs.arizona.edu](mailto:ralph@cs.arizona.edu); Thu, 31 Aug 2000 03:32:09 -0700 (MST)
To: weavetech@topica.com
From: weavetech@topica.com

## WeaveTech Archive 0008

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Subject: Digest for weavetech@topica.com, issue 369
Date: Thu, 31 Aug 2000 03:31:31 -0700
Message-ID: <0.0.2007532670-951758591-967717891@topica.com>
X-Topica-Loop: 0
Status: R
-- Topica Digest --
    Re: Anwg Conference 2001
    By sharlin@coollink.net
    Re:Janice Bradford
    By nardoo@voyager.co.nz
```

Date: Wed, 30 Aug 2000 07:44:34 -0700
From: Hinze/Wood [sharlin@coollink.net](mailto:sharlin@coollink.net)
Subject: Re: Anwg Conference 2001
I'm hoping someone on this list was involved in choosing the materials for the challenge packets given out in Bozeman last fall for the next ANWG conference in Eugene next summer or knows what was used. I got a packet with red cotton yarn and a silver metallic. Was the yarn given mercerized or unmercerized??? I have both in the colors I want for my challenge project but would rather have all of one or the other. Thanks, S
Sharon C. Hinze
Spokane, Washington 99203

Date: Thu, 31 Aug 2000 08:16:06 +1200 (NZST)
From: Caroline Moreton [nardoo@voyager.co.nz](mailto:nardoo@voyager.co.nz)
Subject: Re:Janice Bradford
Am trying to get hold of Janice Bradford from the Complex Weavers but my email keeps being returned. If you are there Janice could you email me, or if anyone has a new adress for her I would appreciate it, thanks

Caroline Moreton
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End of weavetech@topica.com digest, issue 369

