

either the respective binder warp or the figure warp, or both, are stitched, in either case interlacing after a suitable arrangement (weave) with the binder picks.

Figs. 5, to and inclusive 10, show six designs of face effects for these figured repps. No notice of a binder warp is taken.

Full type shows the floating of the figure warp to produce the design.

Shaded type shows the rib line produced by the figure warp interlacing on plain repp weave.

The one warp-thread used in these six designs, in practical work on the loom, stands for 2 figure warp-threads. In the same way the one stuffer pick shown may also stand for 2 or 3 picks in one shed in the loom, depending upon the character of the fabric structure desired to be made.

Designs given refer to what we consider Dobby work.

Fig. 5 can be made on 10 figure harness shafts, plus 2 or 4 harnesses for the binder warp. In the same way

- Fig. 6 calls for 6 harnesses for the figure warp,
- Fig. 7 calls for 7 figure harnesses,
- Fig. 8 calls for 10 figure harnesses,
- Fig. 9 calls for 10 figure harnesses,
- Fig. 10 calls for 9 figure harnesses.

To these figure harnesses add in connection with weaves Figs. 6, 7, 8, 9, and 10, one or two (or more if so required by the texture of the fabric under consideration) harnesses for the binder warp.

Jacquard Work.

This subject is best explained by means of a fabric analysis, and for which reason Figs. 11, 12 and 13 are given.

Fig. 11 shows actual size, a photographic reproduction of such a Jacquard Repp Ottoman fabric, showing only a small portion of its complete repeat, the latter being too large for reproduction. Two systems of warp and filling yarns are used, *viz*:

Warp: 2 ends spun silk twist, old gold, for face threads, heavy count of yarn.

- 1 end 2 ply fine count of cotton yarn, imitation old gold shade, for binder.

3 ends in repeat.

Filling: 1 pick binder, fine single cotton yarn, imitation old gold shade.

- 1 pick stuffer, 3 fold very heavy count of cotton yarn, with hardly any twist in it (3 fold 6's or 8's yarn) imitation old gold shade.

2 picks in repeat.

Texture of Fabric.

- 74 ends Face warp, spun silk
 - 37 ends Binder warp, fine cotton twist
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- 111 ends per inch in finished fabric.
- 31 picks per inch, of which
- 15½ picks are binder, fine single cotton yarn
 - 15½ picks are stuffer, 3 fold heavy cotton yarn.
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- 31 picks per inch in finished fabric.

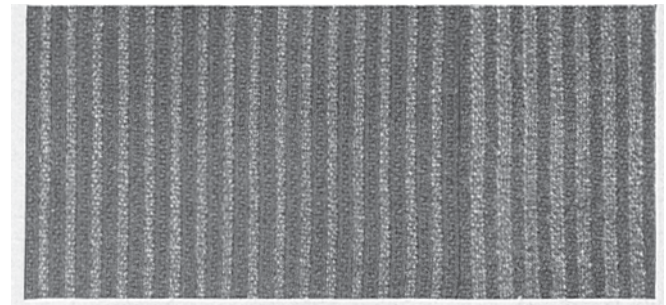
(To be continued in August issue.)

WORSTED TROUSERING.

(Reversible Stripe Effect.)

Warp: 6318 ends; draw on 18-harness straight or on 10-harness fancy draw.

Dress: 13 sections, each containing 27 patterns @ 18 ends, or 486 ends, total.

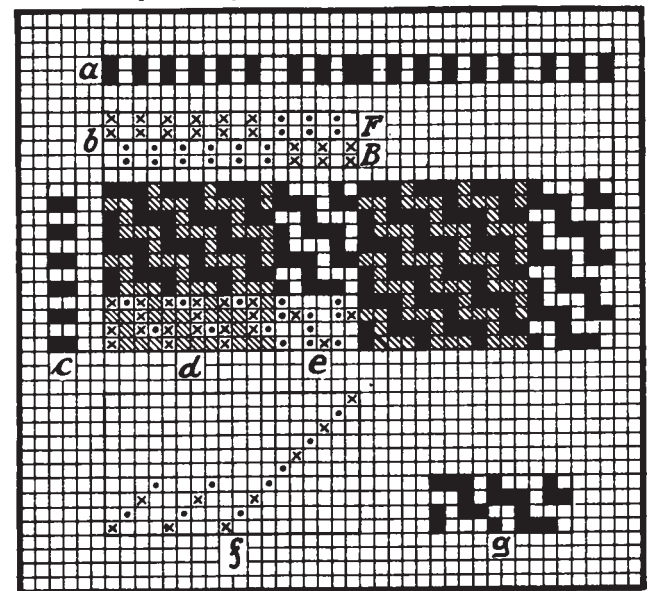


Face of Fabric Back.
ACTUAL REPRODUCTION OF FABRIC

Arrangement of Warp:

- 1 end 2 fold 2/56's worsted, hard twist, black.
- 1 end 2/56's worsted, dk. gray and white } × 4
- 1 end 2/56's worsted, black.
- 1 end 2/56's worsted, dk. gray and white.
- 1 end 2 fold 2/56's worsted, hard twist, black.
- 2 ends 2/56's worsted, dk. gray and white.
- 1 end 2/56's worsted, black.
- 1 end 2/56's worsted, dk. gray and white } × 2
- 1 end 2/56's worsted, black.

18 ends repeat of pattern.



DETAILS OF FABRIC STRUCTURE:

- Weave for Face and Back structure, the plain weave.
- a: Color Scheme for Warp.
- b: Scheme for Face and Back Warp in Weave.
- c: Color Scheme for Filling.
- d and e: Construction of the two effects, dark and light; repeat of weave 18 warp-threads and 4 picks.
- f: Drawing-in draft for 10 harnesses, fancy draw.
- g: Harness-chain for draft f.

Reed: 16, using 6 ends per dent; 66 inches wide, exclusive of selvage.

Filling: 85 picks per inch, arranged thus:

- 1 pick 2/56's worsted, black.
- 1 pick 2/56's worsted, dk. gray and white.

2 picks in repeat.

Finish: Worsted finish, clear face, 56 inches wide.