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C. F. LEE

1,786,569

FABRIC

Filed March 19, 1930

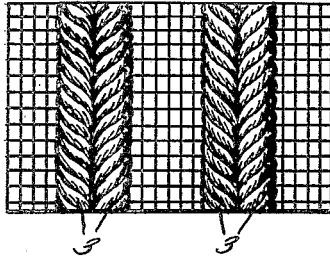


Fig. 1.

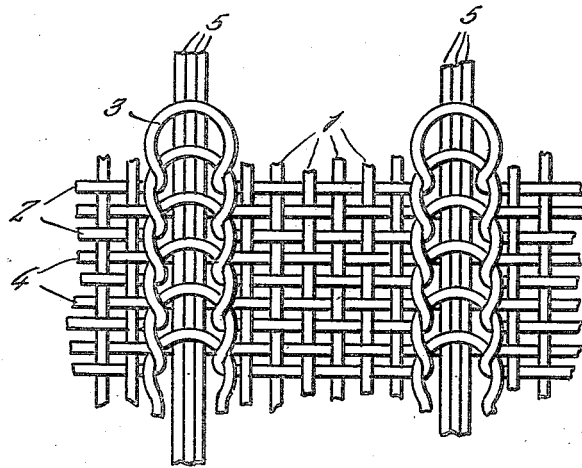


Fig. 2.

Fig. 3.

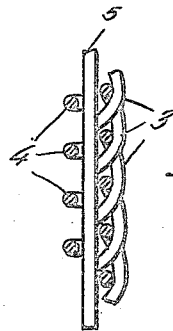
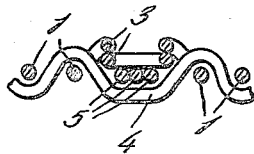


Fig. 4.

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FABRIC

Application filed March 19, 1930. Serial No. 437,094.

This invention relates to new and improved fabric which is produced by the means illustrated and described in a co-pending application which bears Serial Number 437,095 filed
5 by me on March 19, 1930.

An important object of the invention is to provide a fabric of the aforementioned character of a combined woven and knitted construction whereby one side of the fabric
10 or a portion thereof is knitted without the incorporation of any additional threads other than those which are ordinarily used in making woven fabric.

Another important object of the invention is to provide a fabric wherein the knitted
15 portion is formed by certain of the weft threads constituting a part of the fabric.

A still further important object of the invention is to provide a combined woven and
20 knitted fabric which will maintain its shape against longitudinal and lateral strain.

Other objects of the invention will become apparent from the following specification when taken in conjunction with the accom-
25 panying drawing in which like reference characters designate like parts throughout the several views, and wherein:—

Figure 1 is a plan view of a piece of fabric constructed in accordance with this inven-
30 tion.

Figure 2 is a face view of a portion of fabric constructed in accordance with this invention with the threads constituting the
35 same widely separated.

Figure 3 is a transverse sectional view.

Figure 4 is a longitudinal sectional view of the fabric.

In the drawings, the warp threads are designated by the reference numeral 1, and interwoven therethrough are the weft threads
40 2 which are looped and interlocked as at 3 to provide the knitted facing clearly illustrated in Figure 1 of the drawings.

It is understood that as many loops as desired may be provided in the weft threads 2
45 for the purpose of providing a piece of fabric having a solid appearing knitted face or a face which is only partially knitted as illustrated in Figure 1. It will be noted that the
50 interlooped weft threads 2 constitute every

second weft thread in the fabric and the weft threads 4 which are disposed between the looped weft threads 2 are unlooped. The weft threads 4 constitute means for preventing stretching of the fabric in the direction
55 in which they extend while the warp threads 5, which are bunched in the loops 3 prevent stretching of said fabric in the other direction, as will be obvious.

As clearly indicated in Figure 2 of the
60 drawings, the loops 3 are interlocked and the open end of each loop is closed by the preceding loop.

It will thus be seen that I have provided a fabric of combined woven and knitted con-
65 struction which is produced by knitting certain of the weft threads of the fabric and thus eliminating the necessity for incorporating any additional threads in the fabric for the purpose of providing the same with a
70 knitted face or a partially knitted space.

The herein described illustration and description of the invention is merely a preferred embodiment which is shown by way
75 of illustration and it is understood that various changes in the construction of the fabric may be made without departing from the spirit of the invention as claimed.

What is claimed is:—

1. A fabric comprising warp and weft
80 threads forming woven sections, alternate weft threads being interlooped to form knitted sections between the woven sections and the remaining alternate weft threads directly connecting the woven sections. 85

2. A fabric comprising warp and weft
85 threads forming woven sections, certain of the weft threads being interlooped to form knitted sections between the woven sections, and the remaining weft threads directly connecting the woven sections. 90

3. A fabric comprising warp and weft
95 threads forming woven sections, certain of the weft threads being interlooped to form knitted sections between the woven sections, said knitted sections having certain of the warp threads extending therethrough, and the remaining weft threads extending beneath the warp threads in the knitted sections and directly connecting the woven sections. 100

4. A fabric comprising warp and weft threads forming woven sections, alternate weft threads being interlooped to form knitted sections between the woven sections, the knitted sections having certain of the warp threads extending therethrough, and the remaining alternate weft threads extending beneath said certain warp threads and directly connecting the woven sections.

5. A fabric comprising warp and weft threads forming woven sections, certain of the weft threads being interlooped to form knitted sections between the woven sections, certain of the warp threads extending through the knitted sections and constituting means for preventing longitudinal stretching of the knitted sections, and the remaining weft threads extending between the woven sections transversely of the knitted sections and beneath said certain warp threads and constituting means for preventing transverse stretching of the knitted sections.

6. A fabric comprising warp and weft threads forming woven sections, certain of the weft threads being interlooped to form knitted sections between the woven sections, certain of the warp threads being bunched and extending through the knitted sections beneath the loops and constituting means for preventing longitudinal stretching of the knitted sections, and the remaining weft threads extending between the woven sections transversely of the knitted sections and beneath the warp threads in the knitted sections and constituting means for preventing lateral stretching of the knitted sections.

In testimony whereof I affix my signature.

CHARLES F. LEE.

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