Feb. 6, 1940. K. SHIRANEZAWA 2,189,370

WOVEN FABRICS

Filed Sept. 12, 1938

Fig. 1.

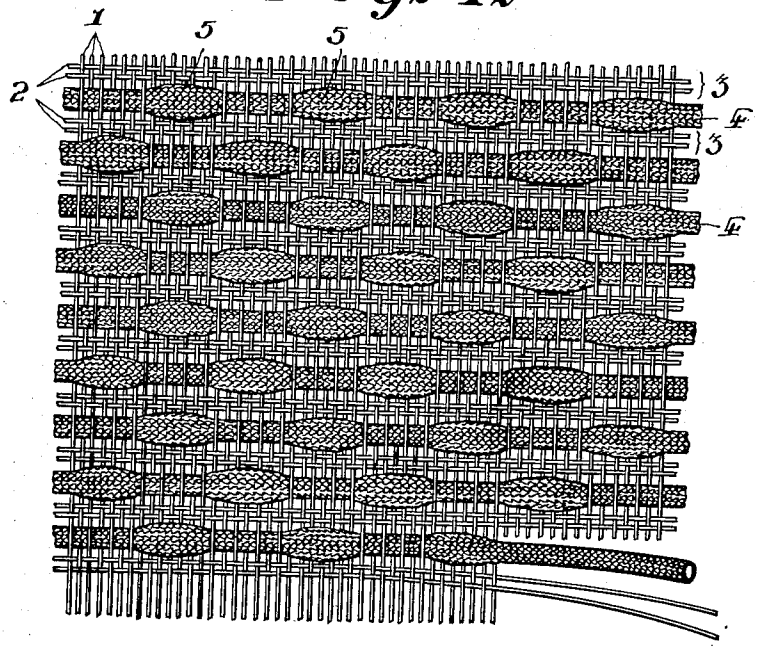
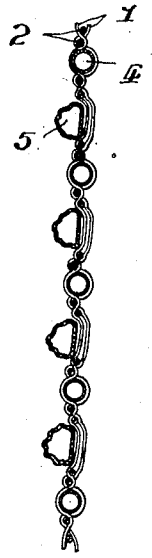


Fig. 2.



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WOVEN FABRICS

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Application September 12, 1938, Serial No. 229,630

2 Claims. (Cl. 139—420)

This invention relates to woven fabrics, and has for its object to provide a fabric for both ornamental and practical uses, without presenting susbtantially a disagreeable luster, and without substantially napping.

In the accompanying drawing:

Fig. 1 is an enlarged plan view of a piece of the fabric embodying the invention to illustrate a manner of weaving.

Fig. 2 is an enlarged vertical sectional view of the fabric taken along one pair of warp threads.

Referring more particularly to the drawing, 1 represents silk or artificial silk warp threads, and 2 represents hard twisted silk or artificial silk weft threads. A knitted hollow cord 4 is interwoven between alternate, or every two or more weft threads and is passed over a number of the warp threads 1 in suitable spaced relation, as indicated at 5. The fabric thus produced is subjected to a scouring or finishing operation.

On the scouring or finishing of the fabric, the hardtwisted weft threads 3 considerably shrink or pucker, whereby the portions of the knitted hollow cords 4 passing over a number of the warp threads are squeezed and swelled out on the surface of the fabric, due to their being hollow and elastic to some extent, to form numerous small bud-like globules 5, which present a beautiful appearance as if numerous buds were scattered over the surface of the fabric. This is the result of the use of the knitted hollow and elastic cords in combination with the hard twisted and shrinkable weft threads. Finer and more graceful buds may be obtained by the use of knitted hollow cords of an artificial silk relatively difficult to be dyed, such as celanese artificial silk, or its mixture with other artificial silk.

It will be understood that the warp threads and weft threads may be any desired threads or yarns, and that various specific beautiful figures may be formed on the surface of the fabric in accordance with arrangement of the knitted hollow cords between the weft threads and passing over a number of the warp threads and further that one or more additional weft threads of any suitable material may be interwoven into the fabric in such a manner as to form a desired texture.

The fabric thus produced will be soft to the touch and will have less tendency to crumple in comparison with ordinary artificial silk fabric, due to the softness and elasticity of the knitted hollow cords used, and is suitable for use in making a handbag, necktie, purse, pocket-book, coat and overgown, because the fabric is relatively thick due to the small bud-like globules on the surface of the fabric, and is incidentally inexpensive to manufacture.

Having thus fully described the invention what is claimed as new and desired to be secured by Letters Patent is:

1. A woven fabric comprising interwoven warp and weft threads, the threads extending at least in one direction being hard twisted and shrinkable, and knitted hollow cords extending parallel to the hard twisted and shrinkable threads and engaging at suitable intervals at least one of the threads which lie at substantially right angles thereto and passing over a number of said threads in suitably spaced relation so as to provide a number of bud-like globules arranged throughout the surface of the fabric in any desired design when the fabric is subjected to a scouring and finishing operation.

2. A woven fabric comprising interwoven warp and weft threads, the weft threads being hard twisted and shrinkable, and knitted hollow cords extending parallel to the weft threads and engaging at suitable intervals at least one of the warp threads and passing over a number of said warp threads in suitable spaced relation so as to provide a number of bud-like globules arranged throughout the surface of the fabric in any desired design when the fabric is subjected to a scouring and finishing operation.

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