

Books of Special Interest on account of the present Extensive Use of Natural Dyestuffs

WOOL DYEING, Parts 1 and 2

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Fancy Dress Fabric.

Fig. 1 shows in outlines the formation of the design—the repeat consisting of 120 threads, divided into three groups, thirty threads for each edge, and sixty for the centre. One doup is required in front of the reed, and controls one of the groups of thirty threads. The peculiarity of this mounting is that it enables the doups to draw the warp controlled by it over the sixty centre threads, and under the next thirty, before raising them for the shuttle to pass under in the crossed shed. The result is that half the warp is floating loosely on the back when the crossing takes place; also the bunch of crossed warp is not so bulky and unwieldy as it would be if all the warp were crossed. Another feature of the

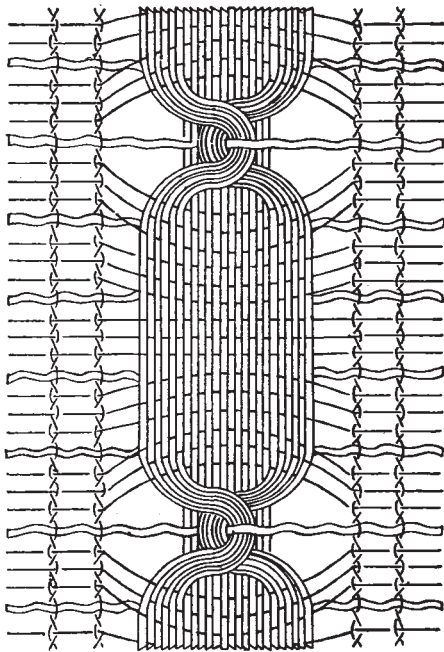


Fig. 1

fabric is that the thick twist picks float loosely on the back of the plain silk figures, causing them to stand up prominently on the surface. Only 24 threads instead of 120, and 20 picks instead of 44, are shown in the illustration, showing the structure of the figured stripes. The open gauze ground contains one pair of threads in each reed, while the figures are six ends in a reed. The twist thread is of a heavy count of yarn, and its irregular appearance is caused by twisting a thick and small worsted yarn together.

Warp.

120 ends 60/2 silk.
34 pairs silk 8000yds. per ounce.
30 reeds per inch.

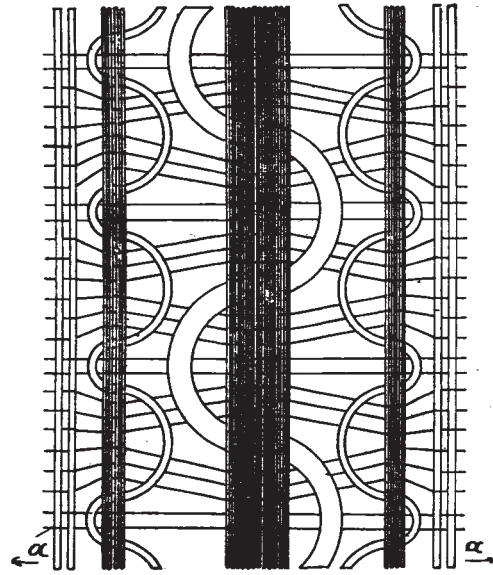


Fig. 2

FILLING.

1 pick worsted twist.
3 " silk 8000yds. per ounce.
44 picks per inch.

A novel gauze stripe is shown in Fig. 2, requiring two doup heddles to weave it. The douping threads forming the edges of the stripe cross under four threads and over two and six picks alternately. The two picks pass over all the four stationary threads, thus helping each other to support the strain of the doup yarn; while the six picks weave plain with these four threads, and spread them out as much as possible. The thick douping thread in the centre of the stripe is smooth and even, and of very peculiar construction. Eight black cotton threads lie straight in the centre of the yarn, forming a core round which three silk threads have been very smoothly and closely wound; the resulting yarn is about 2½ worsted hanks per pound. This douping thread passes under twelve ordinary threads, between every eight picks. Seven of these picks weave plain with the twelve threads, while one pick floats over all of them.

The plain ground *a* is woven two ends in a reed (only 2 threads on each side are shown to illustrate the stripe effect) while the stripe occupies a space equal to twelve reeds, three for each edge and six for the centre.

Warp:

34 ends 2/50's worsted (plain ground).
1 " 3/15's "
4 " 2/120's black cotton.
1 " silk and cotton yarn.
12 " 2/120's black cotton.
1 " 3/15's worsted.
4 " 2/120's black cotton.
32 reeds per inch.

FILLING:

Black silk 11,000yds. per ounce.
56 picks per inch double yarn.