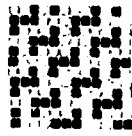


Manufacturing Department.

Textile Design.



Description of threads: A—dark spun at $3\frac{1}{2}$ runs; B—light spun at $3\frac{1}{2}$ runs; C—dark spun at $2\frac{1}{4}$ runs.

WARP:

3	{	2	{	1 light B,
				1 dark C,
	{	2	{	1 dark A,
				1 dark C,
4	{	3	{	1 light B,
				1 dark C,
	{	3	{	1 dark A,
				1 dark C.
<hr/>				
72				

FILLING:

3	{	3 light C,
		3 dark A,
4	{	4 light C,
		5 dark A.
		<hr/> 84

Threads: in warp, 4256; 14 reed, 4 threads per dent, 76 inches wide in the loom; begin warping and weaving on first harness and bar respectively; shrinkage at fulling, 25 per cent.; cloth finish, 56 inches wide; weight off the loom, 35 ounces.

A New Short Route.

Another scheme is on foot for shortening the distance between America and Europe, this time by a line of fast steamers to run from a point in Nova Scotia and the Gulf of Canso to Milford Haven, and it is claimed that the passage can be made in four days. The distance between these two points shows an actual saving of 930 miles as compared with the distance between New York and Liverpool; and it is said by authorities on ocean travel, that this route avoids the great ice-fields and the fogs. A company has been formed, called the "Terminal City Company," to carry out the idea, and they will establish a port and city about six miles below Port Mulgrave, the terminus of the Intercolonial. A piece of land extending above six miles on the shore and about three miles deep has been secured, and the local government has made a large grant of coal lands in Cape Breton. The mails of both the States and Canada are promised if the trials prove satisfactory, and three of the great dry goods houses in New York have promised to send their freight by this route. This idea is a great one, and its outcome will be watched with interest.

Professor J. J. Hummel recently read a paper before the British Society of Arts on the rival merits of artificial and natural dyes. The Professor maintains that the prejudice against what are generally known as the coal-tar colors has long ceased to be justified by facts. With reference to their

fastness under the influence of light, experiments this year for upwards of a month, day and night, on the sea coast near Bombay have shown that, speaking generally, the natural dyes are the most fugitive. Everything depends on knowing which dyes to select for particular fibres, and how to apply them. As a rule colors are most fugitive on cotton, more permanent on silk, and most permanent on wool.

Electric Power Looms.

The director of the weaver school in Crefeld, Herr Lembke communicates to the *Leipziger Monatschrift für Textil-Industrie* that, at the inducement of the Commercial Chamber of Crefeld, he has made trial with silk weaver's looms worked by electricity. By a cable 100 feet long, a 1 horse power electric shunt motor with 100 volts and 4 amperes was put in motion. The transmission for the weaver's looms was restricted by a communicator to seventy-two revolutions. Hereby two weavers' looms were put in motion, and it was proved that the working by electricity was more satisfactory than that by means of caloric machines or gas motors, and that the swinging mashes, otherwise necessary for the working on a small scale, can be dispensed with.

Thus it was shown that house industry could easily be made to flourish by the transmission of electric power, and this all the more as electricity can be transmitted equally well under any temperature. Further trials with long running dynamo machines—without the use of the communicator for some looms even without shafting—therefore with direct impulsion of the electro motor at the loom by friction rollers, etc., are being made now.

Chemicals and Dyestuffs.

The following are current quotations:—

Bleaching Powder.....	\$2.00 to \$2.25
Bicarb Soda.....	2.50 " 2.75
Sal Soda.....	0.90 " 1.10
Caustic Soda, 60°.....	2.50 " 2.70
Caustic Soda, 70°.....	2.70 " 3.00
Caustic Soda, 48° and 58°.....	1.75 " 2.25
Chlorate Potash.....	0.18 " 0.20
Alum.....	0.013 " 0.02
Copperas.....	0.90 " 1.00
Sulphur Flour.....	2.50 " 2.75
Sulphur Roll.....	2.25 " 2.50
Sulphate of Copper.....	0.013 " 0.05½
White Sugar of Lead.....	0.68 " 0.10
Bich. Potash.....	0.08 " 0.10
Sumac, Sicily, per ton.....	75.00 " 80.00

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