

MANCHESTER.

The textile classes of the Manchester Technical School show the following results:—

Cotton Spinning.—Honours Grade, 1st Class: Frederick Long, Frank Conliffe, Henry Patchett, Ben Belfeld, Robert H. Knowlson. 2nd Class: Charles B. Smith, Samuel North, Arthur Sutcliffe, Percy Taylor, Eugene Hoffmann, Frederic A. Green, Abel Dearnaley, Richard F. Haworth. Ordinary Grade, 1st Class: Wilhelm Kuffler, William H. Bowker, Frederic W. Jones, William J. Orr, Samuel Wakefield, James A. Thornton. 2nd Class: Robert W. Bennett, Paul Sagar, William E. Travis, Edward Tilston, Ernest F. Heidenreich, Harold Buckley, Solomon D. Torres, John R. Albiston, Edgar E. Bailey, Owen Rowland, Frank Gomersall, William Gregory, Walter S. Curtis, Joseph Muir.

Cotton Weaving.—(The prize medallists were recorded on page 76). Honours Grade, 1st Class: Herbert Tweedale, James Hudson. 2nd Class: Henri Honegger, Robert Riley, Donald J. Ross, George Kellat, William Bleakley, Arthur Pownall. Ordinary Grade, 1st Class: John R. Warburton, Edwin Andrew, John Riley, Ambrose Gratton, Richard H. Gibson, John Holt. 2nd Class: John T. Sherlock, Ernest F. Heidenreich, William H. Denton, James A. Clarke, John Thomas, Edward Lane, Rudolph Gennsens, Thomas Dawson, Owen Rowland, Frederic A. Green, Arthur Watts, Harold Bridge, Frank Hampson, John F. Blumer, Herbert Spenser, Solomon D. Torres, John Whitworth.

Bleaching and Printing of Calico and Linen.—(The prize medallists were recorded on page 76). Honours Grade, 1st Class: Charles Edmeston, George W. Wilson, Edgar H. Pickup, John Walton. 2nd Class: Albert Howard. Ordinary Grade, 1st Class: Ernest H. Taylor, Joseph Whitehead, Samuel Dausiger, Samuel Lord, Frederick W. Appleton. 2nd Class: William H. Young, Robert H. Mercer.

OLDHAM.

Oldham Equitable Co-operative Society Class:—

Cotton Spinning.—Honours Grade, 2nd Class: Jarvis D. Kent, John Harrop, Joseph L. Greaves, Wm. H. Taylor, Christopher Harris. Ordinary Grade, 1st Class: B. Turton, W. H. Hardman, F. Clough, J. R. Larton, Thomas H. Heath, John J. Neid, John Wm. Ardern, 5th prize (a bronze medal). 2nd Class: Richard Nuttall, John H. Ogden, James H. Holden, Thomas Tasker, George Boswick, Ambrose W. Thomas, Jesse Braddeck, Albert Eastwood, Benjamin Dankerley, Albert Booth.

SHIPLEY.

THE SALT SCHOOL.—The following results of examinations have been received:—

Cloth Weaving and Design.—Honours Grade, 1st Class: Fiorello Bentley; 2nd Class: Lovel Bentley, Mitchell S. Clough, Charles H. Tinsley, Wm. H. Wyrill, James Shackleton, and John Teale. Ordinary Grade, 1st Class: Alfred Deane and John Fearnside; 2nd Class: Wm. Gray, Dan Jeffries, and Arthur Lancaster.

Designing.

NEW DESIGNS.

OXFORD SHIRTING.

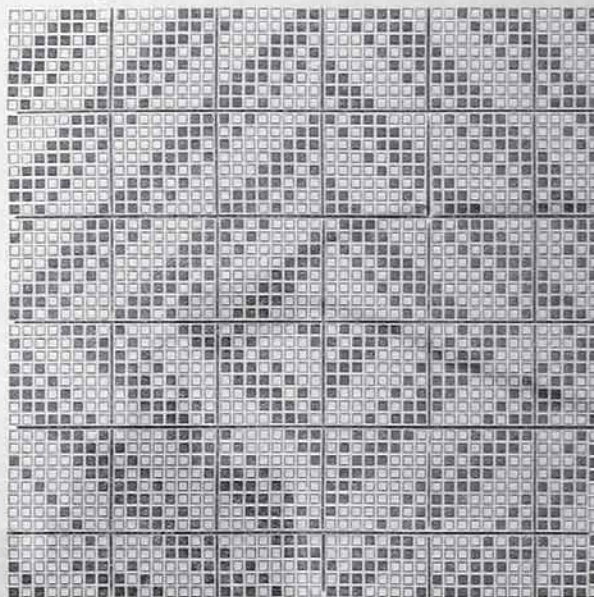
This design is for a new Oxford shirting, or dress material in linen and cotton. If woven grey it could be piece-dyed in all the fashionable shades and tints so much in vogue, and if bleached would be attractive as a washing material for young girls' wear. By following the draft and tread with any two colours (say blue and white, brown and white, lilac and white) in warp and weft, a good check effect would be produced; 48 reed, 3 in a dent, or 72 ends per inch of 24's for warp, 72 picks per inch of 24's weft. If made in cotton warp, same counts, but if cotton warp and linen weft the latter to be 60's linen counts. Space will not permit the draft to be given in the usual way, so we have adopted figures as shewn in the pegging plan. Those at the side indicate the draft, whilst those at the bottom denote the treads. The draft, then, of this design will be:—
1, 2, 3, 4, 5, 6, 7, 8, 9, 1, 2, 3, 4, 5, 6, 7, 8, 9, 1, 2, 3, 4, 5, 6, 1, 9, 8, 7, 6, 5, 4, 3, 2, 1, 9, 8, 7, 6, 5, 4, 3, 2, 9, 8, 7. The pegging plan or tread must correspond with the draft in the same order, viz. —1, 2, 3, 4, 5, 6, 7, 8, 9, 1, 2, 3, 4, 5, 6, 7, 8, 9, 1, 2, 3, 4, 5, 6, 1, 9, 8, 7, 6, 5, 4, 3, 2, 1, 9, 8, 7, 6, 5, 4, 3, 2, 9, 8, 7. If this order of tread- ing be dispensed with, and 1, 2, 3, 4, 5, 6, 7, 8, 9 used repeatedly, a stripe will be formed which may be made in two colours, weft one colour

only, also a navy blue ground, with primrose or any light-tinted wefts. If properly made, a really useful and knock-about dress or shirting material can be produced which would well suit the public taste.

AFRICAN CLOTHS.

No. 1.—Made in a 48 reed, two in a dent, 24's warp and weft, 40 picks; all dark blue; 6 to the round; 9 shafts. Warp pattern and draft: 60

dark blue; 6 orange, 6 dark blue all on shafts marked 1, 2, 3; then 24 of white, and 24 of blue drawn in end and end, the dark blue on shafts marked 1, 2, 3, the white on the shafts marked 4, 5, 6, 7, 8, 9 in the following order:—4, 5, 6, 7, 8, 9, 8, 9, 6, 7, 4, 5, 4, 5, 6, 7, 8, 9, 8, 9, 6, 7, 4, 5, and 6 dark blue, 6 of orange on 1, 2, 3. Total ends in pattern 132, or nearly three inches. White selvage; the ground in any pattern of these African cloths is always very dark blue.



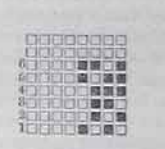
DESIGN FOR OXFORD SHIRTING, ETC.



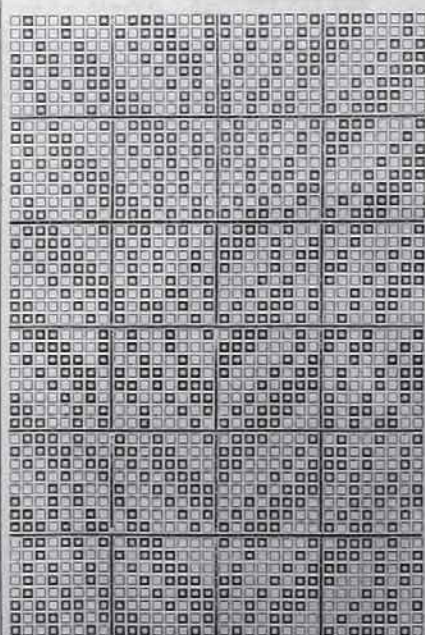
PEGGING PLAN.



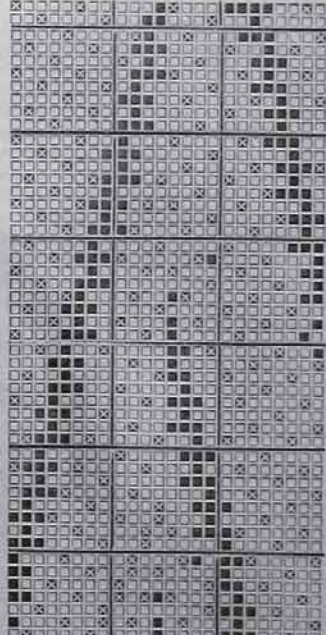
AFRICAN PEGGING PLAN.



No. 2 AFRICAN.



DESIGN 175.



DESIGN 174.

No. 2.—In a 72 reed, 2 in a heald, one heald per dent of 24's warp, 40 picks of 16's weft; all dark blue. Pattern of warp and draft: 12 of white, 12 dark blue, 2 light blue, 12 dark blue, 2 of light blue, 12 dark blue, 12 white all on 1, 2 shafts; 2 red, 12 orange, 2 red on 3, 4, 5, 6 shafts; total ends 80, and four to the round. See pegging plan.

No. 3.—Same reed, counts of yarn and picks. Pattern of warp and draft: 6 dark blue, 2 light blue, 6 dark blue, 2 orange, 2 dark blue, 2 orange 6 dark blue, 2 light blue, 6 dark blue, all 2 in a heald on 1, 2, shafts; 12 white, 4 of very bright red, 12 white all two in a heald on 3, 4, 5, 6 shafts. Number of ends in full pattern, 62. Weft all dark blue; or two shuttles, 4 of white, 30 dark blue.

No. 4.—Plain cloth on two shafts, two in a heald, one heald per dent, 56 ends on one inch; 20's warp; 36 picks 16's weft per inch. Pattern of warp: 2 dark blue, 2 red, 2 dark blue, 2 red, 2 dark blue, 2 red, 2 dark blue, 2 white, 2 dark blue, 2 red, 2 dark blue, 2 red, 2 dark blue, 2 red, 2 dark blue, 20 white. Total ends in pattern, 50. We have in former issues of this journal urged the necessity of reaching the African market with a class of patterns suitable to the native taste, and these three patterns will, if tried, give satisfactory results.

FANCY WAISTCOATINGS.

Though the fancy waistcoating trade cannot as yet lay claim to a position of the greatest importance, still the quantity of material produced for wear in this form is by no means small, and to some firms it has for years been a source of considerable profit. Of the type of design used, it may almost be said that nothing comes amiss; patterns produced by colour, colour and weave, warp and weft flush, extra

warp or weft, and double cloths, are all observable amongst this class of materials, and upon which is expended the thought of some of our best textile designers.

Design 173 is a suggestion for utilisation in this class of goods. The plan of the pattern is analogous to one supplied in an earlier article, consisting practically of interlacing lines. The ground is of the 2 and 2 twill, this weave being selected to shew up the warp and weft ribs to the best advantage. The warp and weft ribs being edged with a plain thread will shew up neatly and decided, giving the effect mentioned, viz., intersecting lines. As an additional embellishment two spots have been introduced which should be developed in either one or two colours by extra silk weft or warp, according to circumstances. The following set is suitable:—

Warp.
All 2/30's worsted.
14's reed 4's.

Weft.
14 picks, 15's worsted.
1 pick silk } for 8 picks.
1 pick worsted }
28 picks worsted.
1 pick silk } for 8 picks.
1 pick worsted }
14 picks of worsted.
56 picks of ground per inch.

The following would prove an effective system of colouring:—Warp, black; weft (worsted), dark blue; extra silk, blue green and white. The silk spot should be wefted 2 of white, 4 blue green, 2 of white. Other systems of colouring will readily present themselves.

If a more elaborate pattern is required, the lines of weft and warp rib may be developed in silk warp and weft, in which case by the proper introduction of colour—for example, wefting 1

and 1—quite intricate and extraordinary effects may be produced.

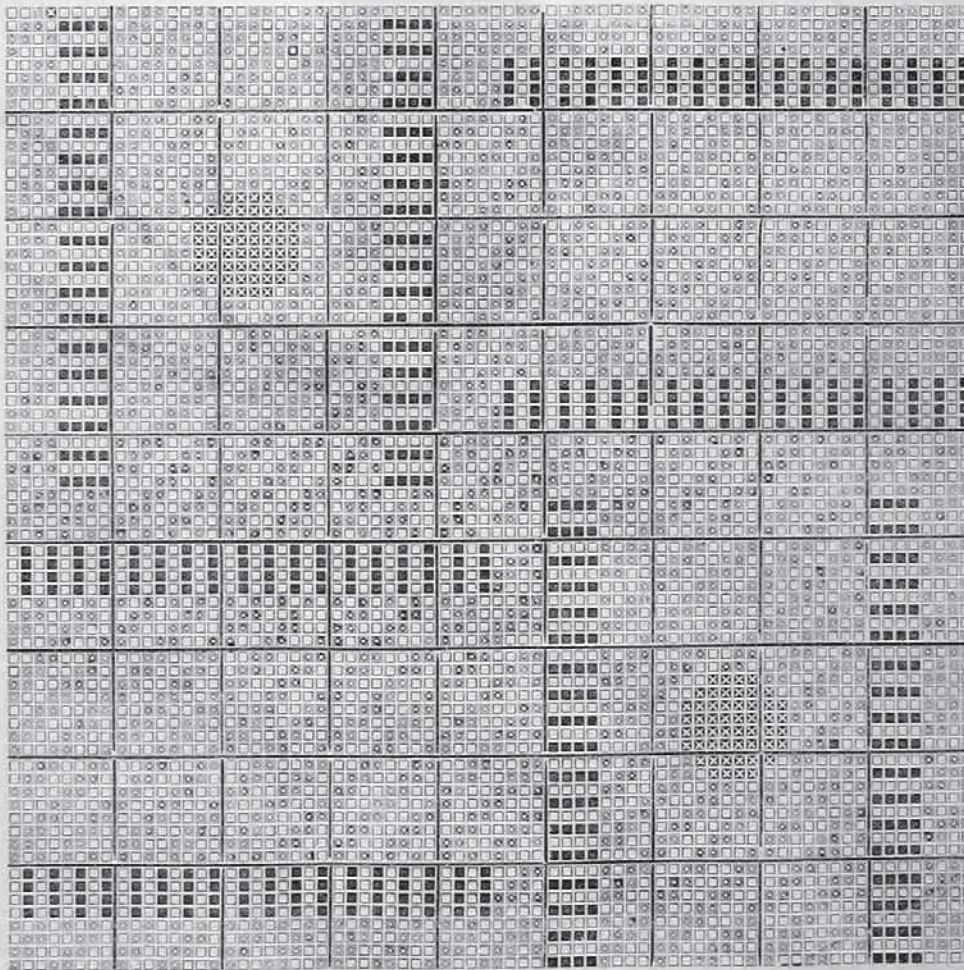
If a cheap cloth is required, the 5-end sateen may be used as the ground weave, and a low weft be introduced, since it would only come to the surface to form the ribs. Care must be taken to weave the cloth on the square, and also to obtain the same precision in both the warp and weft ribs.

Design 174 may be utilized in various ways. Here we have the conditions indicated above, viz., a warp-face weave for the ground, so that an inexpensive weft may be used, thus cheapening the production. The plan of the design is summed up in the words, "opposing weft twills on warp sateen ground." A fine warp and thicker weft will here prove effective, since there is no warp rib to require balance in the weft rib.

This type of design may prove very effective for mantle cloths if considerably enlarged. As such it shall claim our attention in the future.

DRESS GOODS.

Neat yet effective styles of dress fabrics are often produced by paying great attention to the proper blending of colours for both warp and weft yarn. Having, then, obtained a suitable blend, the next thing to consider is the weave to apply. Now, in the first place, the weave must not be too decided or the effect of the blend will be unobserved; nor must it be of a nature to detract from the firmness of the fabric, yet it should give to the cloth some interest. A weave fulfilling these conditions is supplied in Design 175, which interweaves very much like the 2 and 2 twill, and yet will be found to impart just the interest needed for the yarns mentioned. The set should be the same as for the 2 and 2 twill.



DESIGN 173.