



*Last VIII.* shows a convenient system of recording results in cloth manufacture, which the analyst will do well to study, and further develop by recording all the cloths coming under his supervision.

NEW DESIGNS.

MUSLINS, ETC.

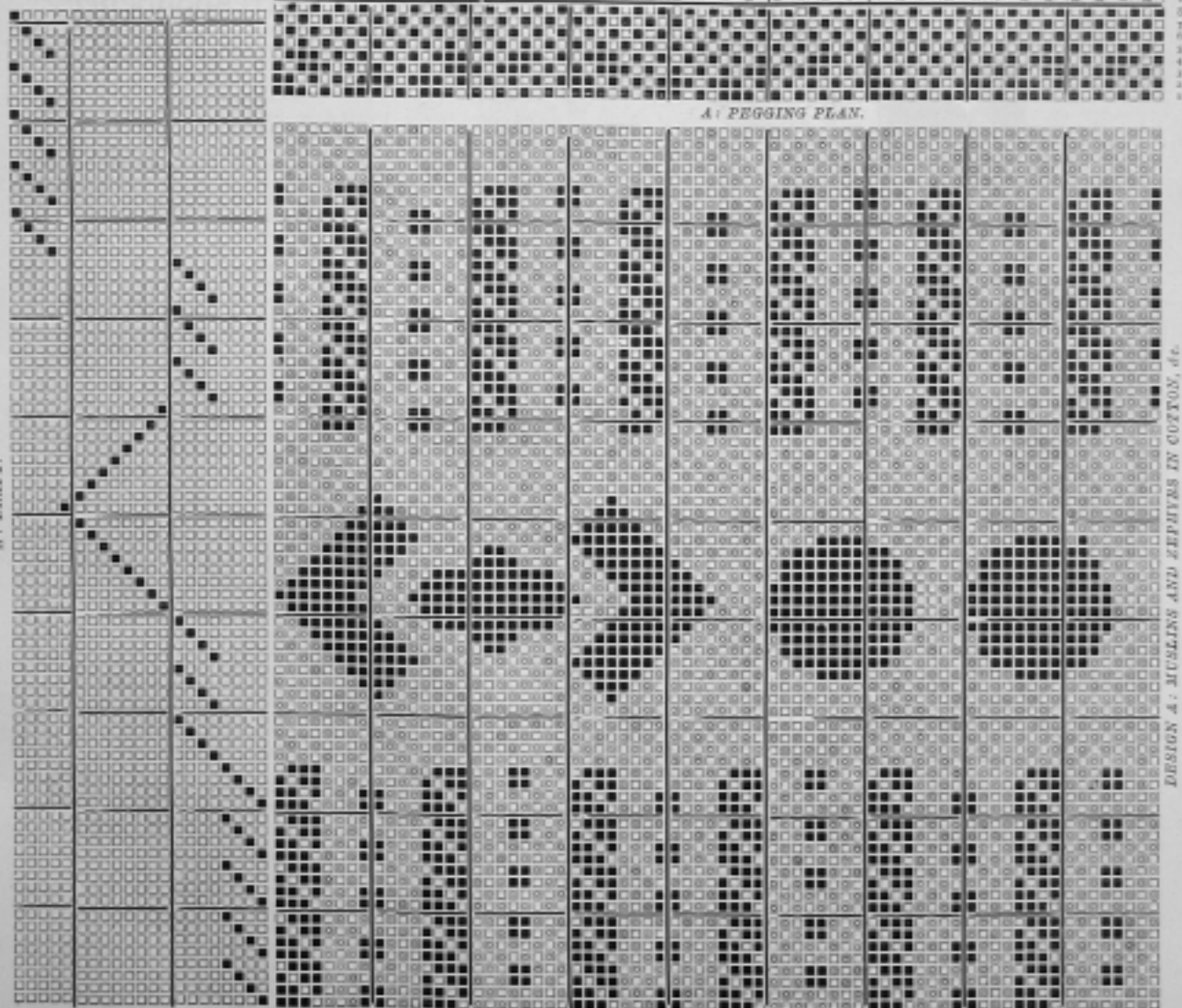
Muslin and light zephyr cloths are increasing in favour, especially in the finer makes with 60's twist. *Design A* will require a dobby, being on 21 shafts, 72 to the round. The pegging plan for this design is numbered in progressive order, so that the pattern which we give may be followed accurately, the numbers indicating the shafts; the draft is not for any particular pattern, but merely to show how it may be drawn in on the plain and figured shafts. Any other arrangement may be adopted for convenience: the three sets of plain shafts can be brought together in front, or the figured shafts in front; this, of course, would require an alteration in the pegging plan, but being numbered it would not be difficult to follow the change. A good fabric would be made with 40's

twist for warp and weft, 40 dents per inch, 80 picks of weft per inch, woven all grey and bleached or piece-dyed; good beetle finish. For coarser goods, calender finish would be more suitable; perhaps it would be found an advantage to use a weft a few counts less than the warp, so that the figured stripe may have a bolder development. Warp pattern: 80 threads on 1, 2, 3, 4 shafts; 30 threads on 5, 6, 7, 8 shafts; 17 threads on 9, 19, 21, 12, 13, 14, 15, 16, 17, 18, 15, 14, 13, 12, 11, 10, 9 shafts; then 30 threads on 5, 6, 7, 8 shafts; 80 threads on 18, 19, 20, 21 shafts; 30 threads on 5, 6, 7, 8 shafts; and repeat from the first 80 threads; the pattern all two in a dent. From these particulars it will be seen that a great diversity of stripe effects can be produced by drafting. The figured stripe portion is not very prominent, the latest idea for this class of fabrics requiring very little ornamentation. We have given suggestive particulars, which may be improved upon according to circumstances; the design can be altered to give plain ground with the figure for a small stripe effect, in which case

13 shafts would suffice—four for the ground and nine for the figure. A very good effect would be produced by having a few brown and white printed ends throughout the plain ground, and weaving with bleached warp and weft. A very irregular block of print would be suitable—one thread in every third dent, drawn in on plain shafts.

SCOTCH PLAID PATTERN IN COTTON.

This is made with a 4-shaft twill, weave or cassimere, two shafts up, two down, 40 dents per inch, two in a dent; 36's twist for warp; 72 picks per inch of 36's weft; all cotton, best quality of material, and good fast colours that will wash. Pattern: 72 silver grey, 10 cardinal, 16 dark brown, 10 cardinal, 72 silver grey, 10 cardinal, 16 dark brown, 10 cardinal, 96 light blue-green, 10 cardinal, 16 dark brown, 10 cardinal, 96 light blue-green, 10 cardinal, 16 dark brown, 10 cardinal, making a total of 480 warp threads, nearly 7 inches of a pattern; weft check the same, 51 inches in the reed, to finish at 90 inches wide.



A: PEGGING PLAN.

A: DRAFT.

DESIGN 4: MUSLINS AND ZEPHYRS IN COTTON, &c.