

As usual with multi-block patterns, we work them out from a profile, or make the pattern first and analyze it later. Each line of the profile represents one block (or two shafts), and each tie in the short tie-up draft two treadles (1-5, 2-6, 3-7, 4-8). In fig.3 we have three examples of patterns and their profiles.

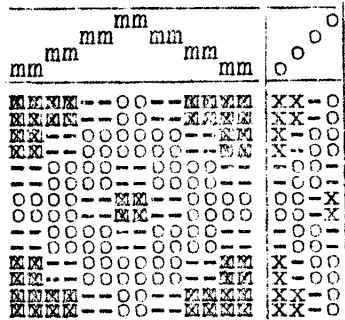


Fig.3 A

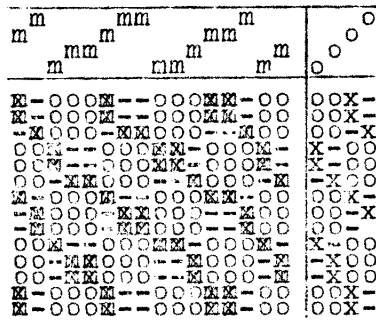


Fig.3 B

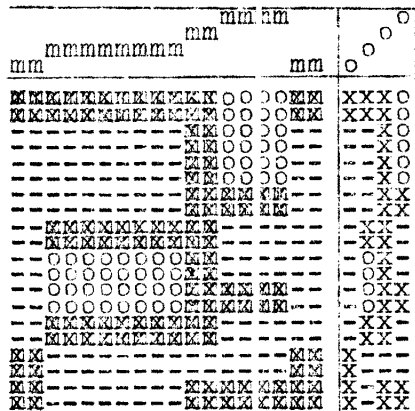


Fig.3 C

To make the drafts as simple, and as clear as possible, we are using here only pure colours. The number of blocks is therefore only four. By blending

colours we can have six more blocks. But for blending we must use additional symbols in treadling. For instance if we blend x and o, neither can be used in the treadling directions, except in the full draft as in fig.2. In a short draft the blending can be indicated by additional letters, e.g. "v" = x+o; "z" = -+o, etc. Needless to say that these additional blocks will be only

in treadling, since they cannot change the profile.

With a higher number of shafts we can use twill as the ground weave, instead of tabby. Fig.4 is an example of 1:3, or rather 3:1 twill. It can be woven as satinet.

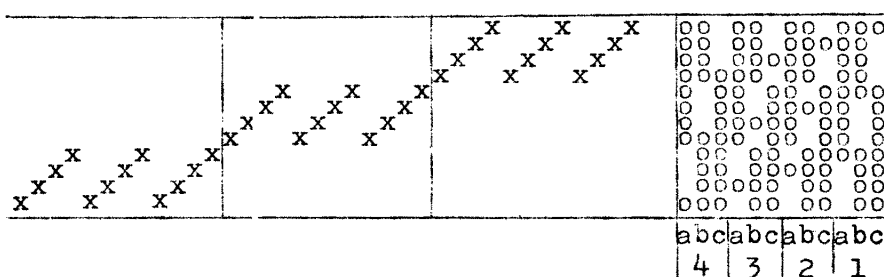


Fig.4

We have here three blocks of pattern only, because each block takes four shafts, Four blocks would require 16 shafts.

The treadling for broken 3:1 twill will be: 4a, 4b, 4c, 2a, 2b, 2c, 3a, 3b, 3c, 1a, 1b, 1c.

For broken 2:2 twill: 4a+3a, 4b+3b, 4c+3c, 1a+2a, 1b+2b, 1c+2c, 2a+3a, 2b+3b, 2c+3c, 1a+4a, 1b+4b, 1c+4c.

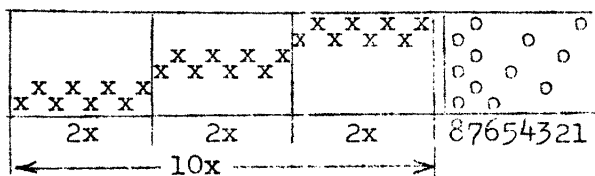
For biased 3:1 twill: 4a, 4b, 4c, 3a, 3b, 3c, 2a, 2b, 2c, 1a, 1b, 1c.

These treadlings do not indicate the colours used, because the selection of colours depends on the pattern woven. Of these three treadlings the most satisfactory is the first, because it gives the best coverage of warp without any diagonal in the texture.

Broche woven on a multi-shaft loom has a very limited number of blocks, when compared with a draw-loom. This is why, before coming to this final stage, we had an article on Locked Wefts in Full Swivel. In Broche we can use locked wefts exactly as in Full Swivel, and with the same results, that is increasing considerably the number of blocks of pattern, and this time we are speaking about the blocks in the profile. The more complicated the profile, the more we gain. Thus in Fig.3 C, where the profile is very simple we gain only one block. In fig.3 A - we have three additional blocks. But in fig.3 B locked wefts can give as many as eight blocks extra.

We shall not go into all details of weaving Broche, because such details would take too much space, and also because the weave is likely to be experimented with by really advanced weavers, who are able to solve purely technical problems.

PRACTICAL PROJECT. Upholstery.



Warp: 10/2 merc.cotton, beige.
No.of ends: 480; sett: 20 ends per inch; reed No.10, 2 ends per dent.

Weft: 10 merc.cotton, soft twist, or corresponding pearl cotton.
Treadling: 6,5,4,3,2,1. Order of colours: aababb, cbccac, etc.
Suggested colours: a - black, b - grey, c - white.
