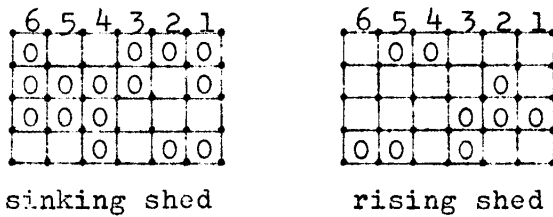




We do this because now we shall have tabby stripes all across the fabric and not only between the blocks of Gauze, and if we "corrected" the vertical stripes of tabby as described for the Pickets, we would spoil the horizontal ones. Therefore we must use other methods of adjusting these two different textures: of Gauze and Tabby



sinking shed

rising shed

Fig.4

There are two different ways of doing it, but before we shall describe them, let us

have a look at our new tie-up and try to understand what all the treadles are for.

First of all we have here two tabby treadles: 2 and 4. But strangely enough we need here three treadles to weave tabby. This is because when we weave straight tabby the doups tangle in the shed, and we have to clear it first. Treadle 6 is doing just that. It lowers all frames but the 1-st, which means that it pulls up, and straightens the doups. We do not throw the shuttle when treadle No.6 is depressed. The order of treading for tabby is then: 6,2,6,4.

Treadle No.2 opens the Gauze shed, and the treading for simple Gauze is 3,4 (no need of treadle 6). How good is the shed on treadle 2 depends on how well is the loom adjusted. We have discussed this point in the last article on cross-weaving. At any rate this shed should be wide enough for the shuttle to be thrown, and not pushed through.

Treadle 1 is similar to No.2 but it opens the tabby shed only part way: from A to B, and from C to D in fig.3. The rest of the shed remains closed. This treadle as well as the next one is used in weaving the Riddles.

Treadle 5 opens only a very narrow shed, which must be enlarged with a pick-up stick before the shuttle can be thrown.

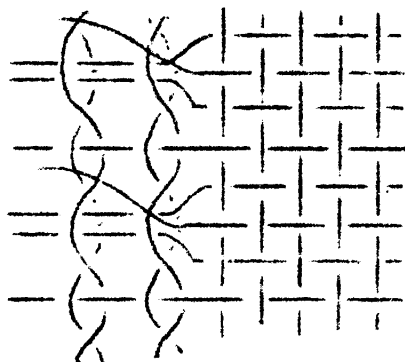


Fig.5

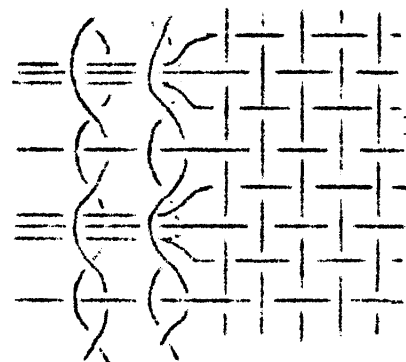


Fig.6

The whole difficulty of weaving Riddles is in the difference between the number of picks per inch in tabby and in Gauze. The widely spaced weft in the Gauze must be somehow compensated in tabby, Fig.5 shows the first method. We treadle as follows: 3,4,1,4. What happens is that in the Gauze part of the fabric the shot of weft on treadle 1 goes entirely above the fabric (makes a long float)

