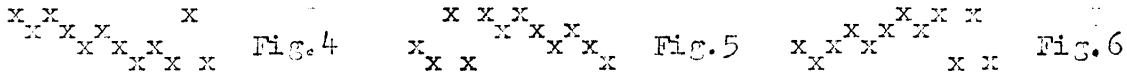
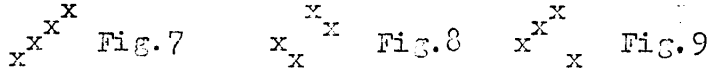


The next step is to fit the draft into the woven piece. If for instance we intend to weave a 40" wide fabric of 18 lea linen, we shall need about 30 ends per inch, or 1260 ends in all with the take-up and shrinkage. If we want about 2" borders it leaves 1140 ends for the main draft. One repeat of our draft has 36 ends. We divide 1140 over 36 which gives us 31 repeats, and 24 ends left over. This surplus ends must go into the borders - 12 in each. Thus we shall have 72 (60+12) ends for the border and selvedge.

2. The Borders. A border should have either a smaller or a simpler pattern than the main draft. In our case it would be difficult to get a smaller, undistorted pattern without additional frames, but we can have a simpler one: a plain diagonal as in fig.4.



3. The Selvedges. With a 4-frame loom we have not much choice. The selvedges will be threaded as plain 2:2 twill. We cannot get anything simpler.

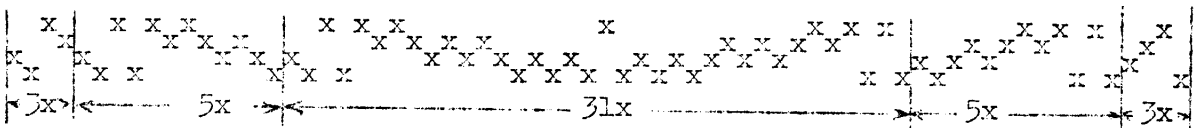


Adjusting. All three parts must be worked out so that: 1-st there is a continuation of design between the main draft and the border, and 2-nd - that the tabby order is preserved. This means that we cannot have two heddles on the same frame, or a gap between frames 1 and 3, or 2 and 4.

The draft for border on fig.4 does not fit neither side of the main draft. There is no continuation of design. Consequently we have to change it as in fig.5 for the LH border, and fig.6 for the RH one. Since our repeat of the border draft has 12 ends we could use it 6 times, but then we would not have anything left for the selvedge. Thus we shall take it 5 times with 12 ends left for the edge.

The same happens when we try to adjust the selvedge draft as in fig.7 to the borders. We have to change it into Fig.8 for the LH edge, and into Fig.9 for the RH edge.

Only now we can assemble the whole draft as in fig.10.



It is a good idea always to check the number of warp ends in the draft before threading. In our case we have:
 $3x4=12$, $5x12=60$, $31x36=1116$, $5x12=60$, $3x4=12$; $12+60+1116+60+12=1260$.
