is preserved. As an example of a complete project we can take the following draft (fig.7):

```
start: 
X X X X X X X X X X X X X X X X X X X X X X X
5x          o o o o o o o o o o o o o o o
Fig.7
```

Let us make the warp grey, except for "o" which is blue, and "X" which is navy. When sloying one should not consider the ends in the frame 4 as belonging to the warp at all. I.e., if the sloying calls for two ends per dent, then sloy all grey (x) 2 per dent, and the other colours wherever convenient, except that two ends threaded through frame 4 should not go into the same dent.

The treadling should start with 4,1,4,3 - 5 times, then 4,1,4; 1,4,3 - twice, then come the crossing of the two borders which is always tricky. The crossing cannot be completely symmetrical since we have to have one set of colours or the other on top. One of many ways of crossing is as follows:

```
24341424143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143414341434143
which is anything but lacy. This is particularly misleading because
there is a real lace weave.

"I agree that it would be better to use the word "harness" in
the English manner as you suggest, rather than for a heddle-frame as it
is custom with us. But I think it is rather hopeless to try and make the
change. I made a mistake when I christened the "Bronson" weave as I dis-
covered after the name and the weave had become fairly current, and
though I have tried ever since to get it back to its proper title I have
had no luck, so I suppose it will continue to be "Bronson". As long as
people use a word for one single thing, and others recognize it as
meaning that thing, one can't really quarrel with it. It is when people
use the same word for half a dozen different things - as "finger weaving"
is used - that I feel something should be done.

"Origins and names interest me. I got the name of the "summer-
and-winter" weave from an old manuscript book preserved in the library
of the Pennsylvania Museum of Art in Philadelphia. I coined the name
"crackle weave" as the Scandinavian name was impossible for most people,
and I was using it in ways quite different from the Scandinavian and
thought it might as well have an American name. The "shadow weave" which
I found quite by accident when I was looking for something else, I just
named in order to have a handle for it. These names have nothing to
recommend them except utility."

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**PATTERN HARNESS**

and **How To Make It**

Weavers who try to find means for self-expression in the pattern
rather than in the intricacies of weaving techniques are often frustrated
by the technical limitations of a weaving loom. Freedom of design means
so many heddle-frames per one block of pattern, and one block is not
much for self expression, and neither are five or for that matter even
ten blocks. On the other hand so-called "free techniques" are in most
cases desperately slow, so slow that no amount of artistic inspiration
can be expected to survive the drudgery involved.

This conflict between the artistic temperament and the tech-
nical limitations of hand-weaving has been solved long ago by the un-
known inventor of the Draw-Loom, a loom where each heddle can be opera-
ted separately. From our point of view however such a loom has several
drawbacks. First it is not on the market and probably will never be.
Its construction is involved and very expensive. Then it requires slave
labour in the form of a draw-boy who opens the sheds or combinations
of sheds. Finally it takes days or weeks to make the necessary tie-up
for any particular pattern. It would not be too bad if we were to repeat
this pattern hundreds of times, but who wants that?

On the other hand if we are willing to sacrifice some of the
advantages of a full blown draw-loom, we can compromise on something
which will still give us a complete freedom of pattern, which does not
require a draw-boy, and which can be operated at a reasonable speed
without a permanent tie-up for each pattern.