

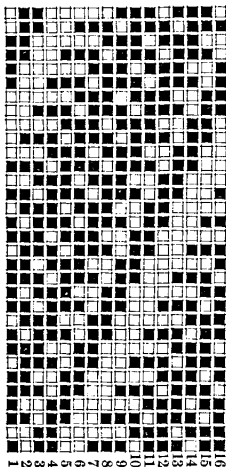
COMPOSING AND COMBINING WEAVES.

[Written for BALDWIN'S TEXTILE DESIGNER.]

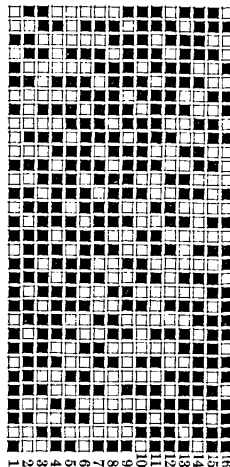
(Continued from page 106.)

TO continue this subject we ask of the reader to go back with us and review the last four weaves published in the preceding article. Your attention is first called to weave No. 3, from which we will draw off the first pick or bar of chain for the first of a new weave, then from weave No. 5, we also draw off the first pick or bar, and set it down under our former one as the second of the new weave; in this manner take a bar from each of these weaves alternately, working in each case cross ways from the left to the right and following downward in each case, and the result is weave No. 7. Again, take weave No. 3 and combine it with No. 6, by following the same principal as before, and we have as a result weave No. 8; therefore, by combining No. 3 with No. 5, then again with No. 6, we get two 16-harness weaves with 32 bars of chain, which are as follows:

WEAVE NO. 7.



WEAVE NO. 8.

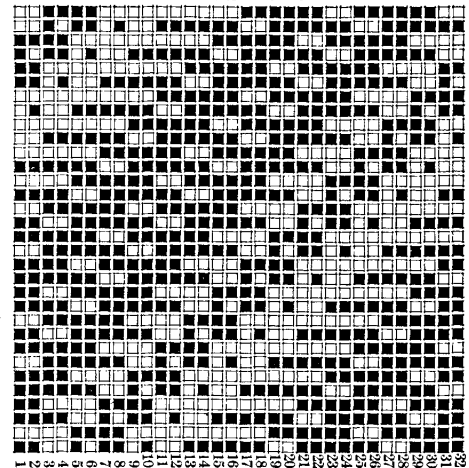


Now we can take weave No. 4, and combine it with No. 5, and again with No. 6, which would give us two more 16-harness weaves of 32 bars each, but there is no object in illustrating these latter combinations, for as before mentioned, weave No. 4, is the same as No. 3, except the position of the twill is changed; hence, if we were to use this weave in combination with weave No. 5 and 6, we must necessarily, have a reproduction of weaves 7 and 8, but standing in different positions. Therefore, it will be seen that the weaves 6 and 8, are the only real independent ones to be combined on the above principle from Nos. 3, 4, 5, and 6.

We will now take the weaving method of the first harness to weave No. 7, (reading either upward or downward) and call it

the first for a new weave, then take in the same manner the first harness to weave No. 8, for the second harness to our new weave, and continue in this manner with these two weaves alternately until both are gone through with, and the result is a 32-harness weave with 32 bars of chain which we will call No. 9, and is as follows:

WEAVE NO. 9.



If we had made the combinations previously spoken of from weave No. 4 and 5, and 4 and 6, we could then have produced several others of the 32-harness variety, but they would all run into that sameness with a difference in positions; therefore, weave No. 9 is the only independent combination that can be produced from the above on the principal followed.

RECAPITULATION.

From the original 32-harness weave we have found that it was composed of two independent 16-harness weaves, Nos. 1 and 2. No. 1 was composed from Nos. 3 and 4; No. 2 from Nos. 5 and 6. No. 7 was combined from Nos. 3 and 5; No. 8 from Nos. 3 and 6, and No. 9 from Nos. 7 and 8:—All of which are independent weaves when taken separately or in combinations, as illustrated, and are first-class weaves for fine worsteds.