

chrome-alum; (b)  $1\frac{1}{4}$  pt. ferric sulphate, 20 lb. chrome-alum,  $3\frac{1}{2}$  pt. pyroligneate of iron; (c)  $1\frac{1}{4}$  pt. ferric sulphate, 25 lb. chrome-alum,  $\frac{1}{2}$  pt. pyroligneate of iron.

### THE NORTHROP LOOM.

As our readers are already aware the Northrop Loom Co. recently started operations in Valleyfield, Que., with a large machine shop equipped with the most up-to-date machinery obtainable for the manufacture of the Northrop loom, and for the production of special machinery to order. The makers give the following among the many special features of the Northrop loom:

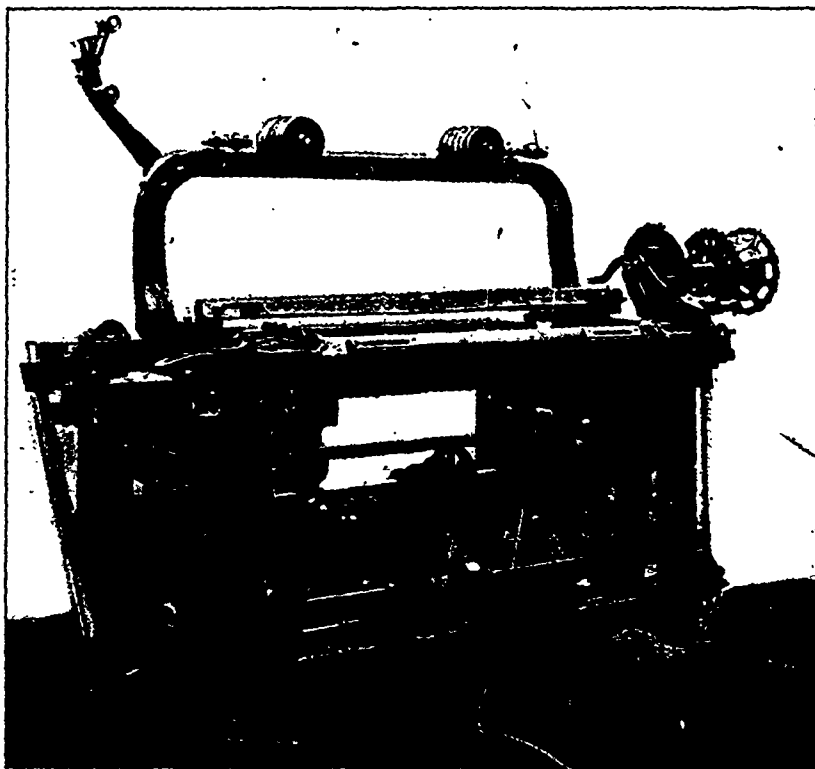
The illustration shows the 36-inch loom, in which the reed space is  $41\frac{1}{2}$  inches, equipped with Lacey patent head for operating from one to six shafts, auxiliary shaft for multiple harness and selvage motion. The manufacturers say: "Our harness motion is so made that a change of one gear only is

tube covered with steel fillet, and will never shrink or swell. There are many other points about which we would like to tell you if you will let us." The company also manufacture special types of warpers, to which reference will be made at another time.

### CANADIAN MANUFACTURERS AND YANKEE METHODS.

A correspondent signing himself "Traveler," writes as follows to Fiber and Fabric, on a recent trip to Canada:

Your correspondent, hearing of the combination of woolen manufacturers in Canada, decided to visit the Dominion and brush up against those who were reputed as members of the company. It was done in an unofficial way by me, nothing being said by any member of the combination for publication. In fact the subject was not mentioned by me that I was a correspondent for any trade paper, so that what is written can be



necessary when the number of harness is changed. Our cams are made single, and it is necessary to change one cam only when a larger or smaller set is required, instead of changing the entire set. Our selvage motion is simplicity itself, easily accessible from the outside, adjustable for opening, and made so that the opening in the reed is always the same. This is a great advance over the old style, in which the front and back selvage harness are lifted the same distance, thus making openings in reed unequal. The yarn beams (not shown) are made to withstand the peculiar climatic condition of Canada by machinery made expressly for the purpose. The rings and gudgeons are forced into place. Gudgeons and barrel turned on centres, and heads held in place with joint bolts. Heads have extra long hubs fitted to gudgeons, instead of being forced on to outside of wood. This method effectually prevents the heads coming loose. The take-up roll is of steel

set down as truth. The combination takes the name of The Canada Woolen Mills Co., Ltd., with their main office at 110 Wellington street, Toronto. The mills taken by the company are the A. W. Brodie mills, Hespeler, Ont., 6-sets; the Lambton Waterloo woolen mills, Waterloo, Ont., 6-sets; the Lambton mills, Lambton, Ont., 5-sets; the Maple Leaf mills, Markham, Ont., 5-sets; the Hawthorne mills and Gillies mills, Carleton Place, Ont., 4-sets. So it is seen that the company makes quite a showing at the start. There is no doubt prices have been too low for goods in Canada, by foolish price cutting to get business, and the object of forming the combination was evidence enough that things have not been in satisfactory shape when the above number of sets of cards have entered a combination. Mr. Brodie is one of the leading manufacturers of Canada. He is a progressive man, and will not keep machinery in his mill that is out of date. He learned in his young