

MARY S. JORDAN.

Rods for Drawing in Warp-Threads.

No. 144,620.

Patented Nov. 18, 1873.

Fig. 1.

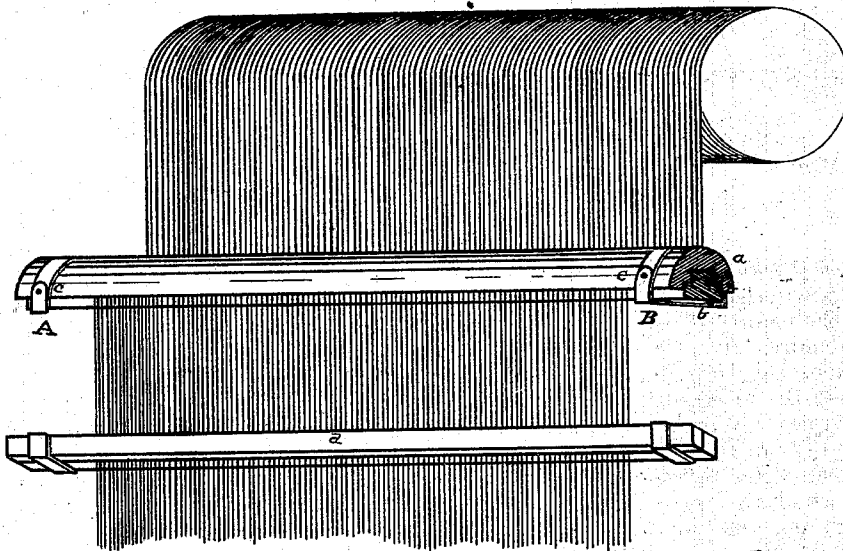


Fig. 2.

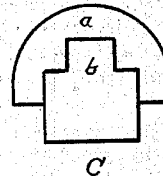
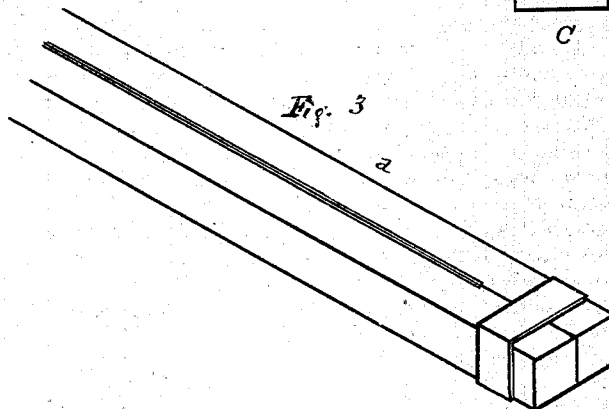


Fig. 3.



Witnesses
Camell Hylthins.
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UNITED STATES PATENT OFFICE.

MARY S. JORDAN, OF TILTON, NEW HAMPSHIRE.

IMPROVEMENT IN RODS FOR DRAWING IN WARP-THREADS.

Specification forming part of Letters Patent No. **144,620**, dated November 18, 1873; application filed May 13, 1873.

To all whom it may concern:

Be it known that I, MARY S. JORDAN, of Tilton, in the county of Belknap and State of New Hampshire, have invented an Improvement in Rods for Drawing in Warps; and I declare that the following is a full and complete description, reference being had to the accompanying drawings illustrating the same.

The object of my invention is to provide a means by which the warp may be firmly held in position, and the threads thereof in their proper and regular order, to be drawn into the harness for weaving, and by the use of which the operation of drawing said warps into the harness may be performed more rapidly and correctly, and the crossing of the threads avoided.

My invention consists in a set of rods in length a little greater than the width of the web, (shown at A and B,) one of said rods being grooved, as shown at *a*, and the other provided with a tongue rabbeted to fit said groove, as shown at *b*. A section of these rods fitted together is shown at C. These rods are placed in position, one on each side of the warp, to be drawn in before the comb is removed, and the two are brought together and clasped at the ends, as shown at *c*, so that the threads of the warp passing between said rods, and being pressed into the groove in the upper rod by the tongue in the lower rod, are held in their proper order. A clamp may be attached to

the center of said rods, if necessary, to prevent their springing apart, and the clasps at the ends may be as shown in the drawings, or of any other convenient form. I suspend two other rods, made straight, shown at *d d*, and not provided with tongue or groove, a short distance—say, two or three inches—below the rods just described, between which last rods the warp also passes, which latter rods are also provided with clasps at the ends, and these latter rods are not intended to hold the warp firmly, but simply to steady the threads in position, and permit them to be withdrawn one by one through the harness.

The harness being suspended in front of the warp so adjusted between my rods, the operator is enabled to draw the threads one by one through the harness with rapidity and without crossing the threads thereof, and in their proper and regular order.

I claim as my invention, and desire to secure by Letters Patent—

The rods *a b*, constructed as above described, with their respective clasps, clamps, or their equivalent, as and for the purposes above set forth.

Tilton, April 17, 1873.

MARY S. JORDAN.

Witnesses:

WM. T. CASS,
MARY E. CASS.