

W. A. Arnold,

Take-Up^s Loom.

No. 102,794.

Patented Dec. 6. 1870.

Fig. 1.

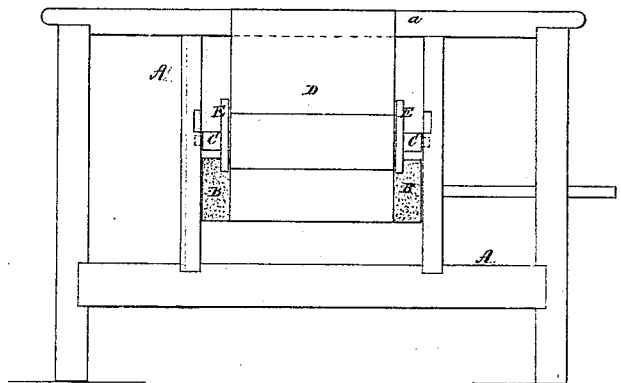


Fig. 3.

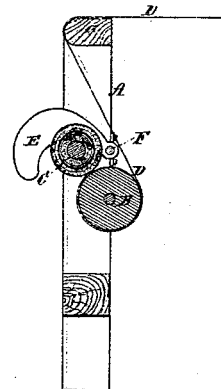
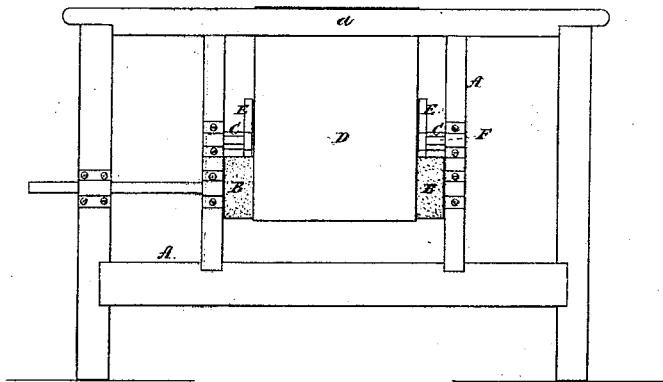


Fig. 2.



Witnesses.

S. H. Piper.

J. R. Snow

Wm. A. Arnold.

by his attorney

R. W. Brady

UNITED STATES PATENT OFFICE.

WILLIAM A. ARNOLD, OF ROCKPORT, MASSACHUSETTS.

IMPROVEMENT IN CLOTH-WINDING MECHANISMS FOR LOOMS.

Specification forming part of Letters Patent No. **109,794**, dated December 6, 1870.

To all whom it may concern:

Be it known that I, WILLIAM A. ARNOLD, of Rockport, of the county of Essex and State of Massachusetts, have invented a new and useful Improvement in Looms for Weaving Cloth; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a front elevation, Fig. 2 a rear view, and Fig. 3 a transverse section, of the breast-beam and rear portion of the frame, the cloth-roller, and sand-roller of a loom, with my invention applied to the cloth-roller and loom-frame.

The purpose of the said invention is to cause the cloth, while being taken up by the cloth-roller and formed into a roll, to be wound evenly at the edges of the cloth; also, to aid in forcing the roll of cloth against the sand-roller.

In carrying out my invention I combine with the loom two hooked or heavy guides extended from a common horizontal shaft and resting on the cloth-roller, and against or in close contiguity with the ends of the roll of cloth, such guides being as hereinafter described, and as exhibited in the drawings.

In such drawings, A denotes the rear portion of a loom-frame, of which *a* is the breast-beam.

The sand roller or drum is shown at B, the cloth-roller at C, and the cloth wound about such roller C and extended around the sand-roller and up over the breast-beam, as shown at D.

The hooked guides are represented at E E as extended from a horizontal shaft, F, arranged as represented, and having journals at its ends supported in bearings in the loom-frame. These guides are to be heavy, so as to press the cloth-roller down toward the sand-roller, and when such guide is next to the end of the roll of cloth such guide is to have a vertical flat surface parallel with the end. The guides in practice eminently answer the twofold purpose hereinbefore mentioned, and have been proved to be highly useful auxiliaries to a loom, as they successfully prevent the cloth from running off one edge of the roll.

I claim—

The combination and arrangement of the hooked guides or guide-weights E E, as described, with the sand-roller B, the cloth-roller C, and frame of a loom, all being substantially as explained.

WILLIAM A. ARNOLD.

Witnesses:

R. H. EDDY,
J. R. SNOW.