

W. A. Arnold,

Take-Up^g Loom.

No. 102,794.

Patented Dec. 6. 1870.

Fig. 1.

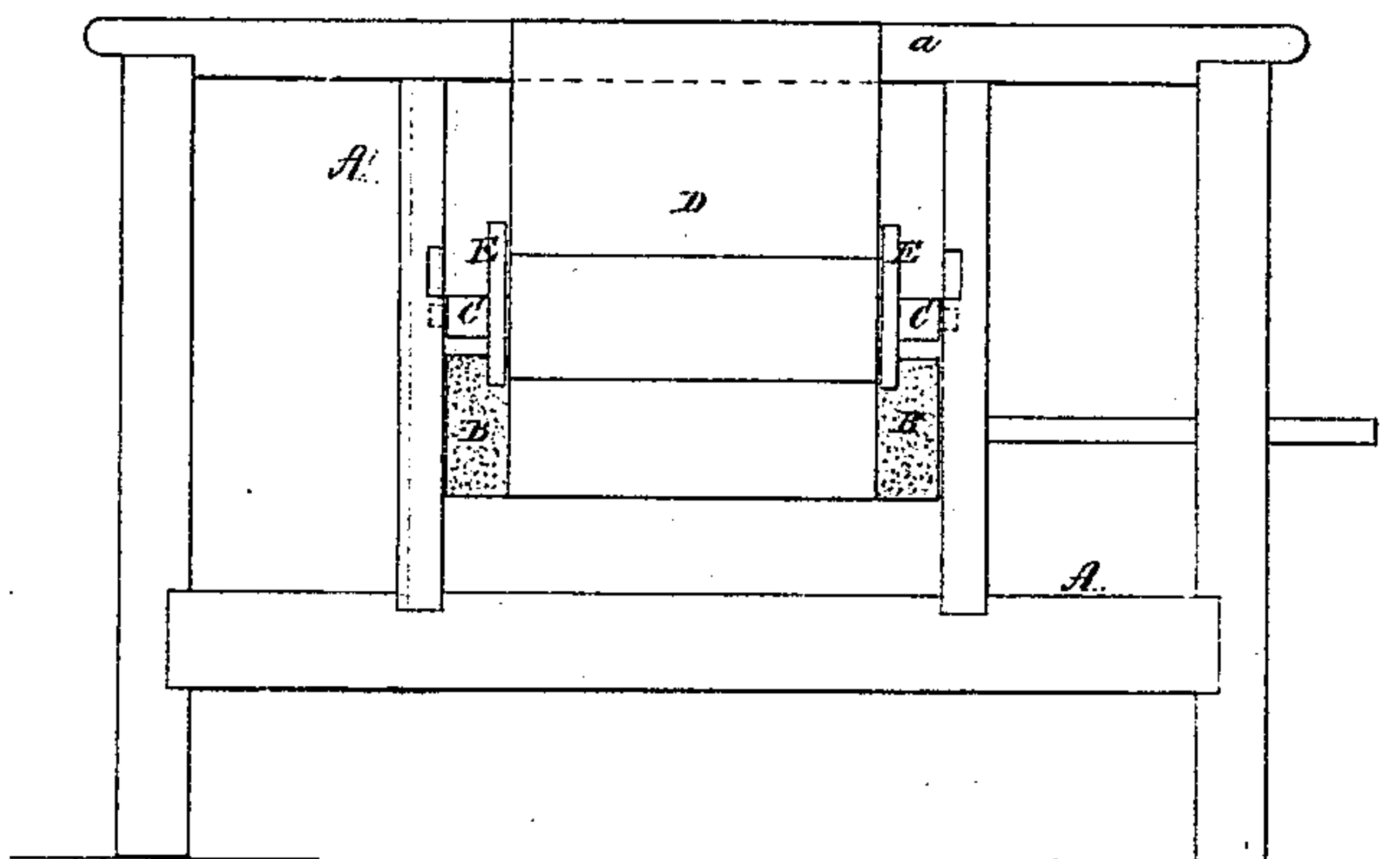


Fig. 3.

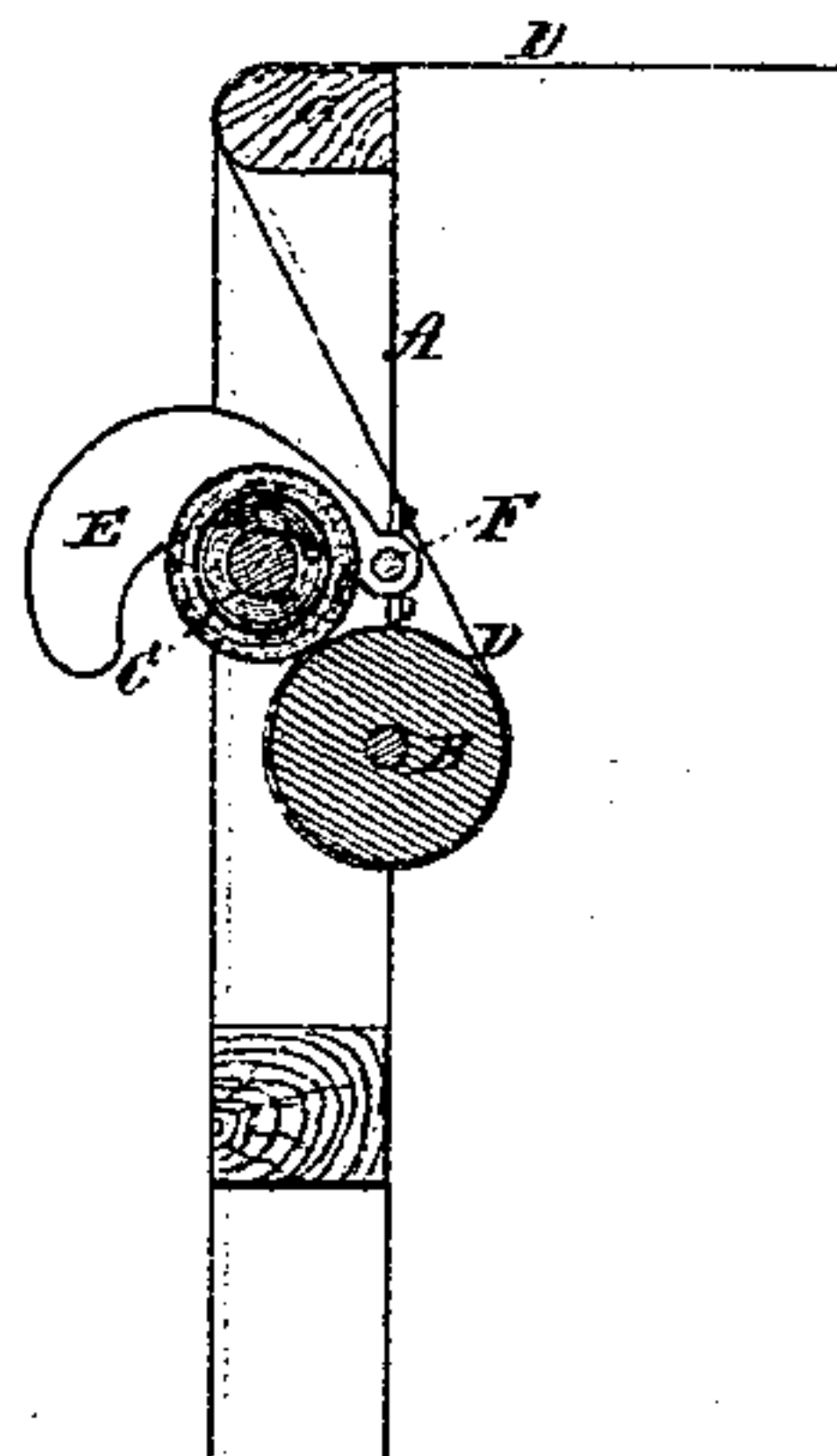
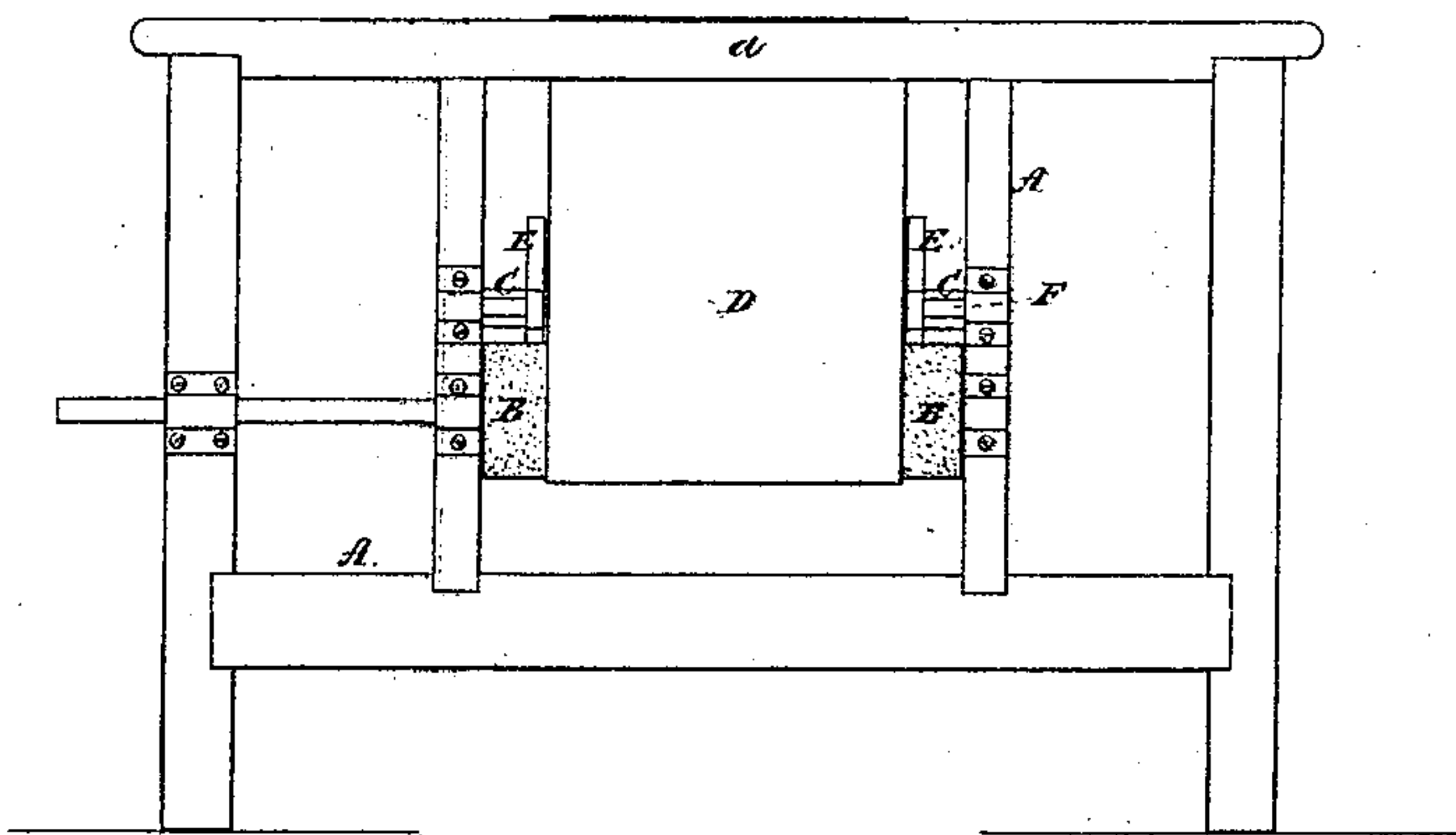


Fig. 2.



Witnesses:

S. N. 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.