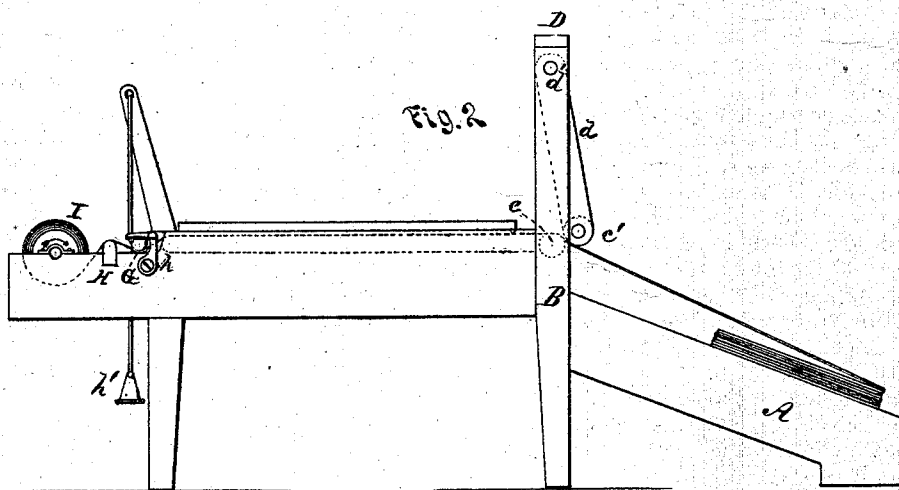
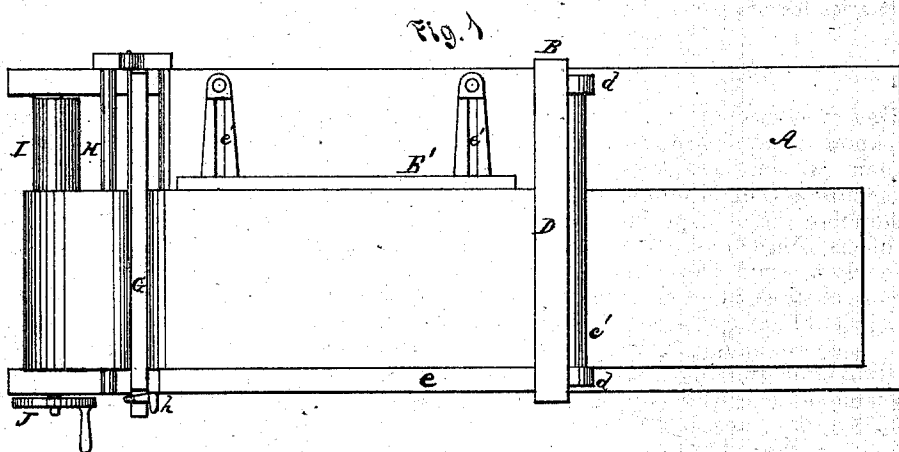


J. H. DREW.
Cloth-Rolling Mechanisms.

No. 146,581.

Patented Jan. 20, 1874.



Witnesses.

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UNITED STATES PATENT OFFICE.

JONATHAN H. DREW, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN CLOTH-ROLLING MECHANISMS.

Specification forming part of Letters Patent No. **146,581**, dated January 20, 1874; application filed August 1, 1873.

To all whom it may concern:

Be it known that I, JONATHAN H. DREW, of St. Louis, Missouri, have invented certain Improvements in Cloth-Rolling Mechanism, of which the following is a specification:

The objects of my invention are cheaply and expeditiously to wind cloth upon rollers, for the purpose of subsequent manipulation. The subject-matter claimed is hereinafter specified.

In the accompanying drawings, Figure 1 represents a plan, and Fig. 2 a side view, of so much of a machine in which my improvements are embodied as is necessary to illustrate the subject-matter claimed.

The mechanism is mounted upon a frame, B. The cloth to be wound (usually in folds) is placed upon a stand, A, at one end of the machine, whence it passes between two rollers, one, c, over which it passes, being mounted in bearings on the frame, while the other, c', under which it passes, is hung by arms d to a gallows-frame, D, so as to swing freely around the pivot d' of the arms. The arms, it will be observed, are a little longer than the distance between their pivots and the lower roller, so that the upper roller necessarily lies on one side of the lower one. Therefore, by arranging the upper roller on the side from which the cloth comes, the movement of the cloth constantly tends to cause the roller to press upon the cloth, and thus keep it uniformly stretched. A flange, e, on one side of the stretching-table E, serves as a gage to keep the edge of the cloth adjacent to it straight while the other edge is kept in line by a gage, E', adjustable by means of slots e' and set-screws, to suit cloths of different widths. After leaving the

stretching-table the cloth passes under a clamp-bar, G, and over a tension-bar, H, to a roller, I, around which it is wound. These rollers are, by preference, made of gas-pipe, inclosed in cylinders of hard wood, their projecting ends serving as bearings. By cutting a screw on one of the projecting ends of each roller, and forming a corresponding screw-thread in a crank-wheel, J, one crank-wheel may be used with many rollers. The clamp-bar is hinged at one end, so as to rise or fall vertically, to permit of the ready insertion of the cloth. It is held down by a hook, h, when in place. A counter-balance, h', enables it to be easily held up when released from the hook. This hinged clamp-bar might, under some circumstances, be dispensed with.

I have found by experience this invention to be of great practical importance, as by its use even an unskilled hand can rapidly wind cloth from the piece into smooth compact rolls in good shape for subsequent manipulation.

I claim as my invention—

1. The combination, substantially as hereinbefore set forth, of the roller-clamp, the stretching-table, the hinged clamp-bar, the fixed tension-bar, and the winding-roller.

2. The combination, substantially as set forth, of the roller-clamp, the stretching-table, its side gages, and the winding-roller, for the purposes specified.

In testimony whereof I have hereunto subscribed my name.

JONATHAN H. DREW.

Witnesses:

C. H. CHAPIN,

T. W. BLACKMAN.