

(No Model.)

J. CONN.  
CLOTH WINDING MECHANISM.

No. 483,510.

Patented Sept. 27, 1892.

Fig: 1.

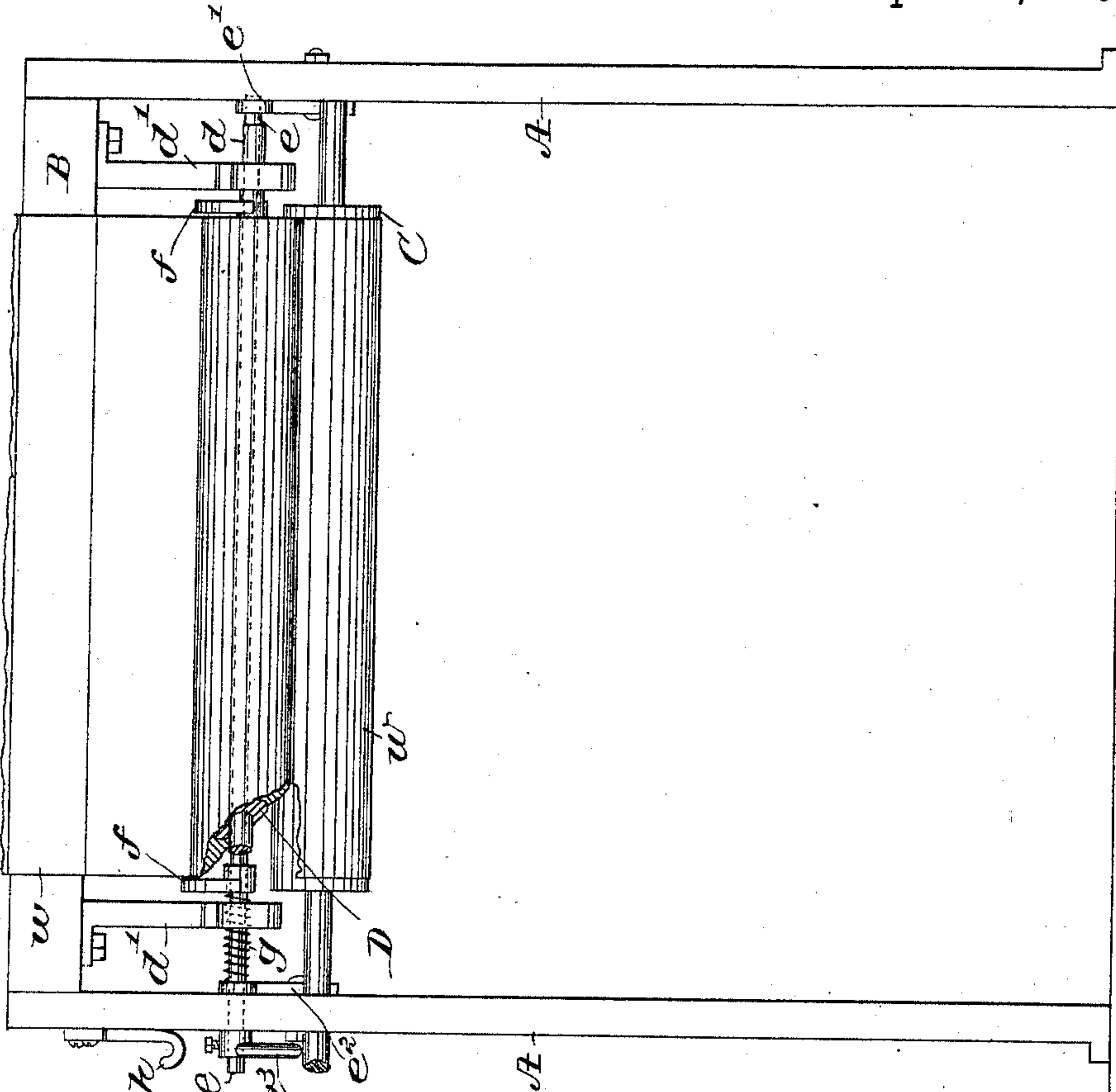
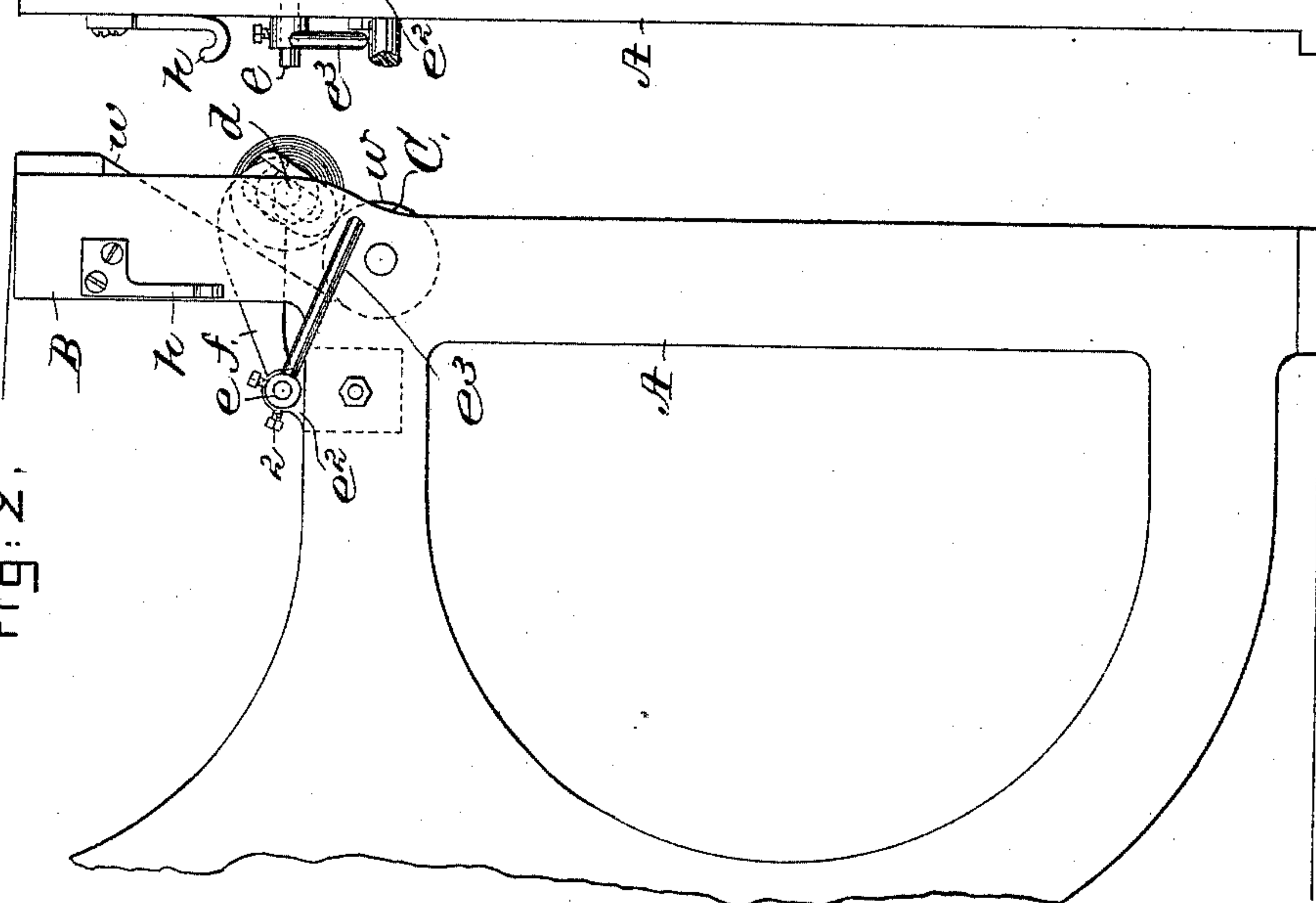


Fig: 2.



Witnesses.  
Edward F. Allen.  
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# UNITED STATES PATENT OFFICE.

JOSEPH CONN, OF FALL RIVER, ASSIGNOR OF ONE-HALF TO GEORGE DRAPER & SONS, OF HOPEDALE, MASSACHUSETTS.

## CLOTH-WINDING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 483,510, dated September 27, 1892.

Application filed February 29, 1892. Serial No. 423,209. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH CONN, of Fall River, county of Bristol, State of Massachusetts, have invented an Improvement in Cloth-Winding Mechanism, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

In winding webs of material on rolls or beams considerable difficulty is experienced in keeping the edges of the web uniform and all in the same vertical plane.

This invention has for its object to insure uniformity of the edges of a web of cloth or other material in roll form.

I have chosen to illustrate my invention as applied in connection with a loom; but it may be applied to any machine where a web of cloth or paper is to be wound.

Figure 1 shows a sufficient portion of a loom with my improvements added to enable my invention to be understood, and Fig. 2 is a left-hand end view of the apparatus shown in Fig. 1.

In the drawings, A represents a framework which may be supposed to be part of a loom; B, the breast-beam or support; C, a roll in practice rotated in some suitable manner and serving to rotate the web-receiving roll D, having a shaft or journals *d*, by surface-contact in well-known manner. The journals or shaft *d* of the roll D enter and take bearing in suitable stands or hangers *d'*.

In Fig. 1 the web is being wound into roll form, and parts of the roll and shaft are broken away to better show the same and parts behind. At the rear side of and parallel to the shaft *d* is a rock-shaft *e*, having bearings in stands *e'* *e''*, attached to the frame in suitable manner, said rock-shaft having a slight longitudinal movement in its bearings. This rock-shaft at one end has a hand-piece or projection *e''*, and within the frame the rod has secured to it in an adjustable manner by suitable set-screws 2 two like guide-plates *f*, notched to embrace the journals or shaft *d*, the two plates being separated one

from the other for a distance equal to the width of the web to be wound, each plate being correctly located on or with relation to the actuating-rod *c* to correspond with the edges of the web *w*.

The shaft *e* has fastened to it one end of a spiral spring *g*, the other end of the spring being attached to the stand *e''* or some other fixed part, so that the spring acts normally to keep the guide-plates in the position shown in the drawings, and when in such position the plates by acting against the edges of the web insure uniform winding of the web and the edges of the web are straight and even in the roll. The spring also keeps the hand-piece *e''* normally pressed against a fixed portion of the stand.

When it is desired to remove the shaft and roll filled more or less, the operator will engage the handle or projection *e''* and turn the same upwardly into the holder *h*, shown as a hook, the rock-shaft *e* moving longitudinally for a short distance against the action of the spring *g*.

By notching the plates *f* to embrace the journals *d* the plates act to guide the first coil or layer of the web and each successive coil.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

The roll having journals *d* and suitable bearings therefor, combined with a rock-shaft having attached guide-plates notched to embrace the journals of the roll, and a spring normally to keep the said plates in position to act as guides, and a projection *e''* from the rock-shaft, and a hook or device to engage the said projection and keep the plates elevated from the journals, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH CONN.

Witnesses:

NICHOLAS HATHEWAY, JR.,  
NICHOLAS HATHEWAY.