

(No Model.)

J. B. RICHARDS.

BRUSH FOR FLOUR BOLTING MACHINES.

No. 316,179.

Patented Apr. 21, 1885.

Fig: 1.

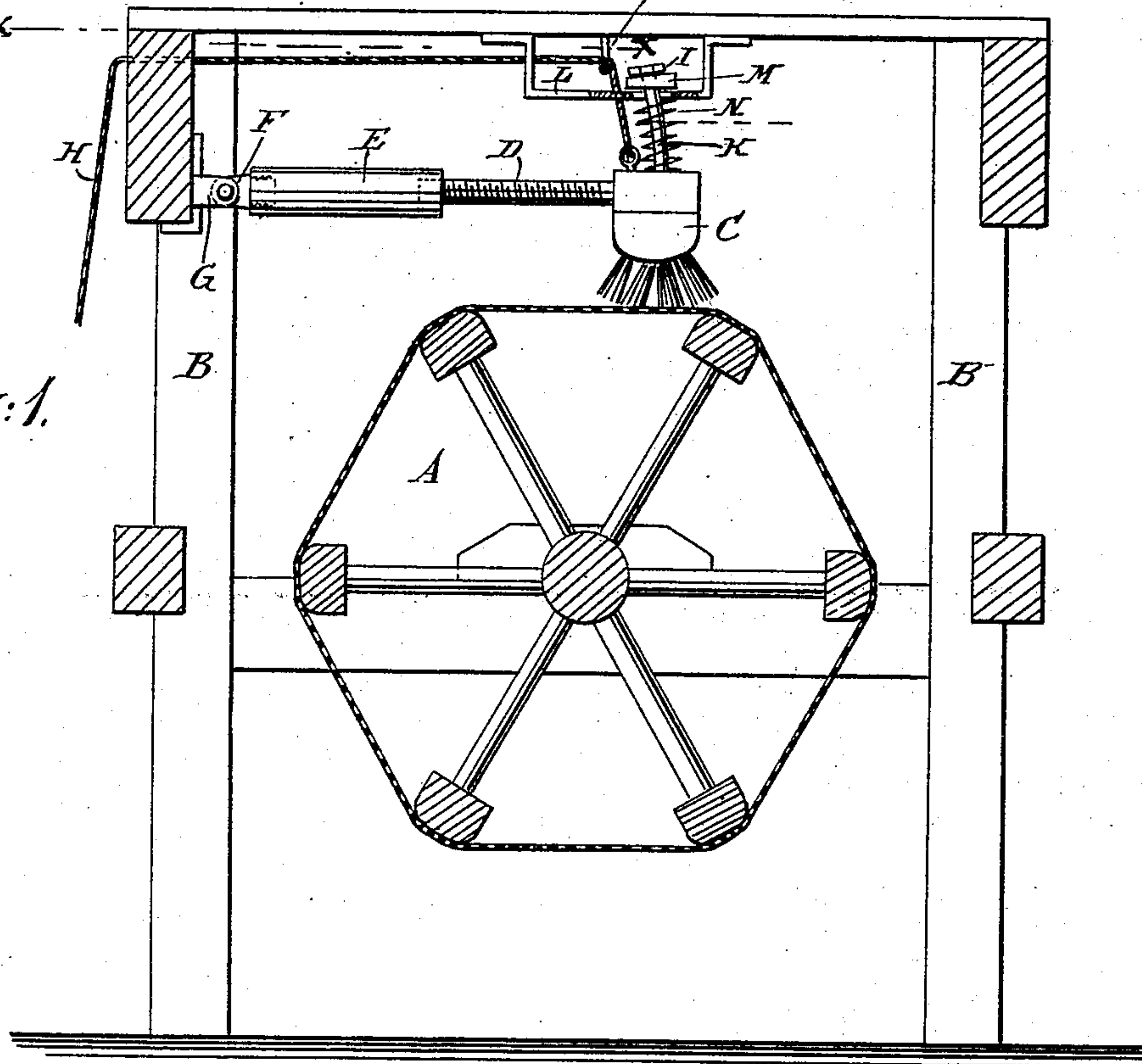
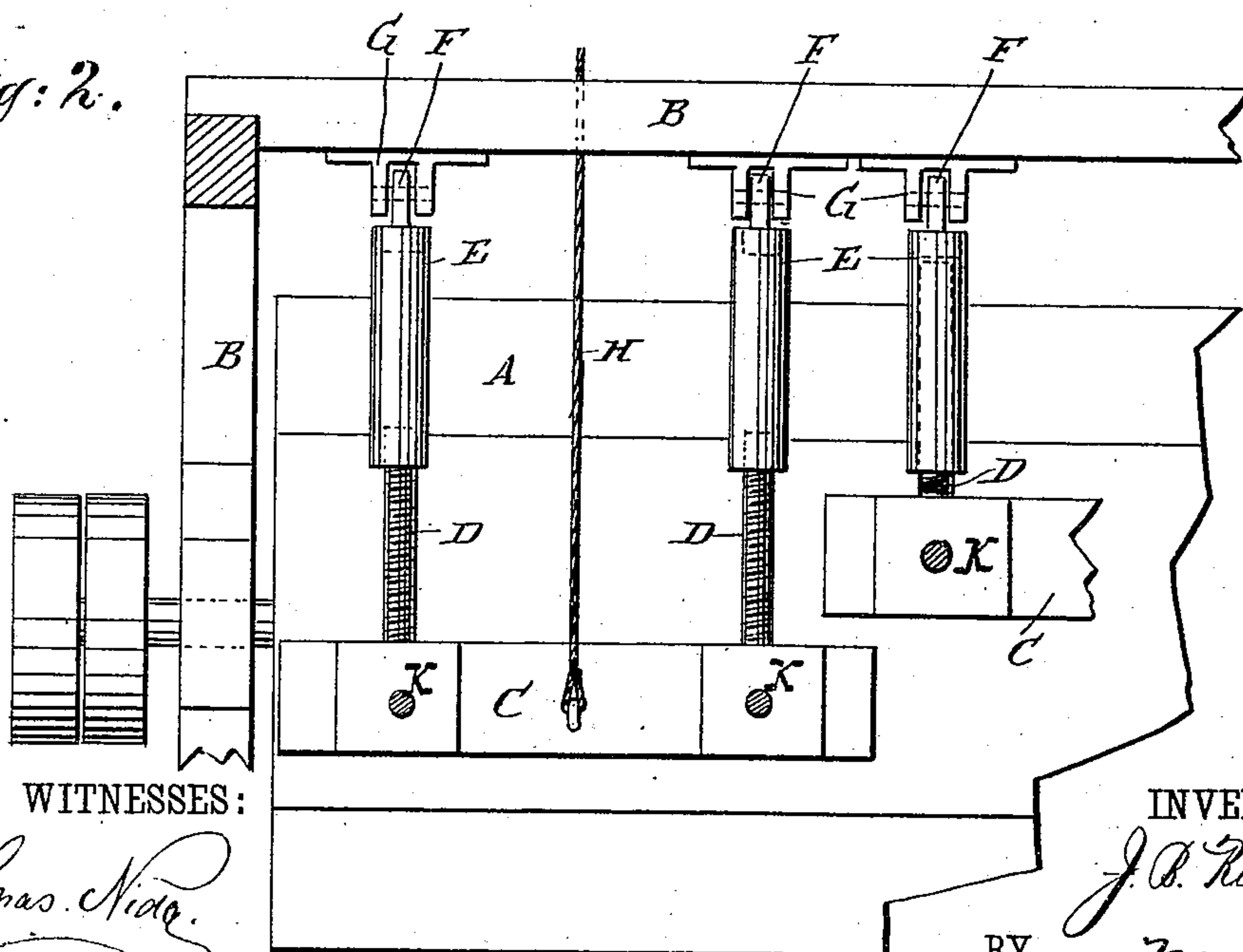


Fig: 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JONATHAN B. RICHARDS, OF PETTIGREW MILLS, ASSIGNOR TO HIMSELF,  
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## BRUSH FOR FLOUR-BOLTING MACHINES.

SPECIFICATION forming part of Letters Patent No. 316,179, dated April 21, 1885.

Application filed September 3, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, JONATHAN B. RICHARDS, of Pettigrew Mills, in the county of Benton and State of Arkansas, have invented  
5 a new and Improved Brush for Flour-Bolting Machines, of which the following is a full, clear, and exact description.

The object of my invention is to provide a  
10 new and improved brush for brushing the outside of bolting-reels of all kinds.

The invention consists of the combinations of parts and their construction, substantially as hereinafter fully set forth and claimed.

Reference is to be had to the accompanying  
15 drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a cross-sectional elevation of a bolting-reel provided with my improved  
20 brushes. Fig. 2 is a sectional plan view of the same on the line *x x*, Fig. 1, parts being broken out.

The reel A revolves in the chest-frame B, both of the usual construction. A brush, C,  
25 is held longitudinally over the reel in such a manner that it can rest on the same, and from the said brush two screw-spindles, D, project, which are screwed into internally-threaded tubes E.

30 In those ends of the tubes E opposite those into which the spindles D are inserted screw-eyes F are screwed, which fit in between jaws G on the frame, the screw-eyes being pivoted to the jaws by suitable bolts, thus adapting  
35 the tubes to swing upward.

A cord or chain, H, secured to the brush C, passes through an eye, J, on the top of the box-frame and through an aperture in the side of the same, the cord serving to raise the brush  
40 from the reel and to keep it raised.

Slightly-curved rods K project upward from the brush through a frame, L, secured on the under side of the box-frame B, which rods are provided with nuts I on their upper ends.  
45 The rods pass through rubber washers M, resting on the plate or frame L, and spiral springs N surround the rods between the brush and the frame L and press the brush on the reel.

A series of brushes, arranged and constructed  
50 in the manner described, are located above the reel the entire length of the same, and the

ends of the brushes overlap each other, as shown in Fig. 2, so that all parts of the reel will be brushed.

By means of the spindle D and the tubes E 55 the brushes can be adjusted to be in different horizontal planes—that is, to be different distances from the sides of the box-frame.

The springs N keep the brushes in contact with the reel. 60

The rubber washers M prevent undue noise by the dropping of the brushes, as the brushes are raised every time they pass over one of the longitudinal bars or angle-pieces of the reel. 65

The brushes can easily be adjusted to suit a reel of any size. They brush the entire surface of the reel, and by means of the nuts I the rods K can be adjusted to let the brushes drop more or less, thus preventing the brushes from 70 exerting an undue pressure on the reel.

The brushes can be raised or lowered by means of the cords H, whether the reel is at a standstill or in motion.

In place of the coiled springs rubber springs 75 may be used.

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

1. The combination, with a bolting-reel, of 80 the brushes C, the screw-spindles D, projecting from the same, the internally-threaded tubes E, and hinges by which the tubes E are hinged, substantially as herein shown and described. 85

2. The combination, with a bolting-reel, of the brushes C, the screw-spindles D, the tubes E, jaws G, and the screw-eyes F in the tubes E, substantially as herein shown and described.

3. The combination, with the reel A, of the 90 swinging brushes C, the rods K, the springs N, the elastic washers M, the nuts I, and the frame L, substantially as herein shown and described.

4. The combination, with the reel A, of the swinging brushes C, the rods K, and the frame 95 L, said brushes being disposed to overlap each other at their ends, substantially as described,

JONATHAN B. RICHARDS.

Witnesses:

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