(No Model.) 2 Sheets—Sheet 1.

J. W. CROSBY.

BRUSHING MECHANISM FOR BOLTING REELS.

No. 352,228. Patented Nov. 9, 1886.

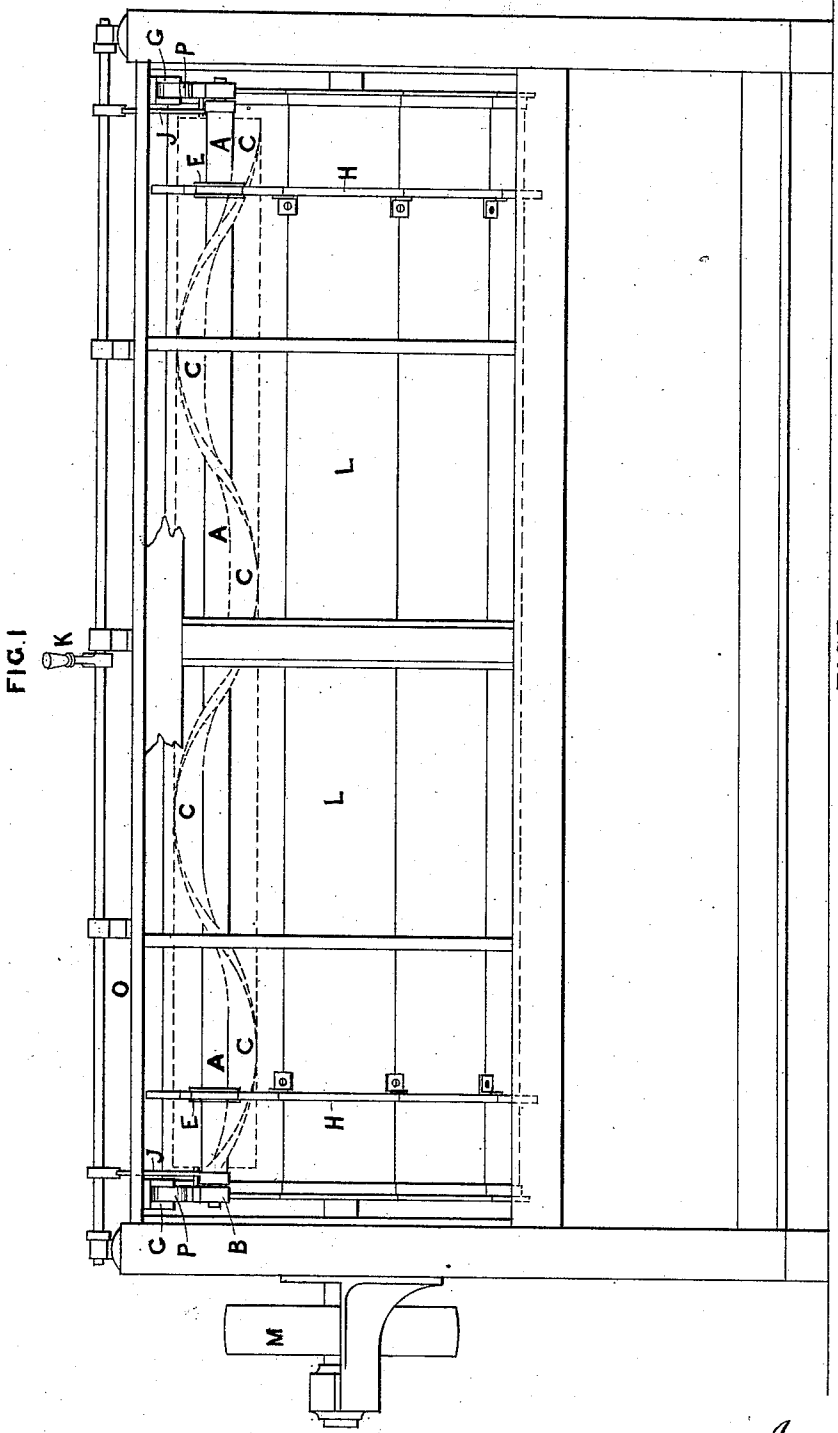


FIG. 1

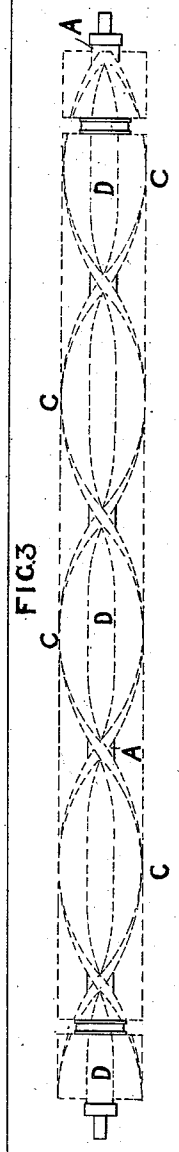


FIG. 3

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(No Model.) 2 Sheets—Sheet 2.

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FIG 5

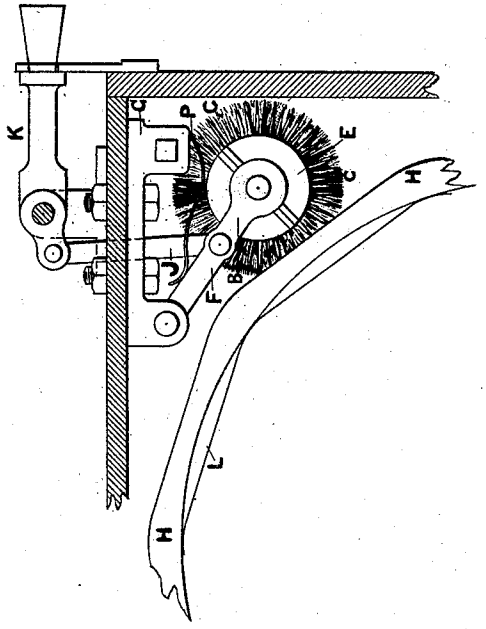


FIG 4

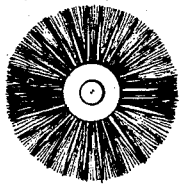
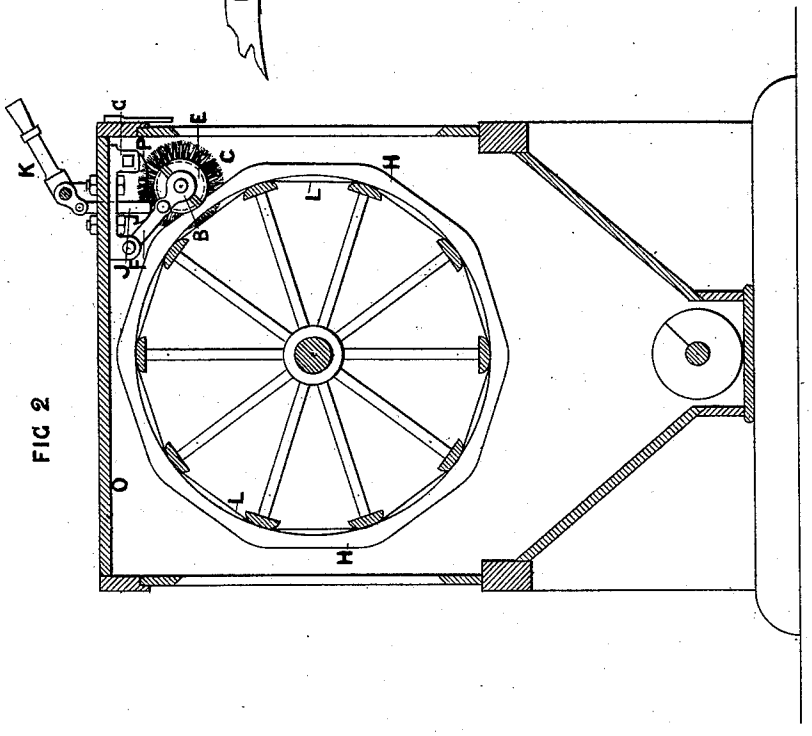


FIG 2



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UNITED STATES PATENT OFFICE.

JABEZ WARD CROSBY, OF LEEDS, COUNTY OF YORK, ENGLAND.

BRUSHING MECHANISM FOR BOLTING-REELS.

SPECIFICATION forming part of Letters Patent No. 352,228, dated November 9, 1886.

Application filed March 12 1886. Serial No. 195,017. (No model.)

To all whom it may concern:

Be it known that I, JABEZ WARD CROSBY, a subject of the Queen of Great Britain, residing at Leeds, in the county of York, England, have invented new and useful Improvements in Brushing Mechanism for Bolting-Reels, of which the following is a specification.

My invention relates to a special construction of devices, hereinafter plainly described, and having mainly for their object the more efficient cleansing of the reels.

My improvements are illustrated in the accompanying drawings, in which Figure 1 represents a longitudinal elevation of a centrifugal flour-dressing machine, the doors of which have been removed to show the internal reel, and showing my improved devices applied thereto. Fig. 2 represents a transverse sectional elevation of the same. Figs. 3 and 4 are side and end elevations, respectively, of the brush; Fig. 5, details of a lever arrangement for throwing the brush in or out of gear.

Similar letters refer to similar parts in all the figures of the drawings.

The brush consists of a long cylinder of wood, A, mounted upon a shaft, the ends of which rest in bearings B. The bristles or fibers of the brush C are fixed in longitudinal lines from end to end of the cylinder A, and two or more of these lines of bristles or fibers follow right and left hand spiral directions, and other rows of bristles, D, are fixed in straight lines along the brush-cylinder.

At or near one or both ends of the brush-cylinder are fixed rollers E, covered round their periphery with strips of elastic material. The bearings B, in which the shaft of the revolving brush is carried, are fixed to the ends of hanging links F, which links are supported by jointed brackets G from the top of the outer case, and the hanging links, together with the brush they carry, can by this means be raised or lowered. Two or more projecting flanges are fixed around the circumference of the reel, said flanges forming lines parallel and concentric with the surface of the silk or gauze screens, and serving the purpose of driving the covered rollers E, which can be lowered until they come in contact with the said flanges.

The revolution of the flanges (with the reel) imparts motion to the pulleys E, which press upon such flanges with the weight of the revolving brush, assisted by the pressure of springs P, and the brush is thereby driven at a high rate of speed, and comes while revolving in contact with the whole of the silk or gauze sides of the reel, accommodating itself by its automatic rise and fall to the angles of the reel. The brush revolving at a higher rate of speed than the silk-covered reel, a sweeping action is produced on the surface of the silk, and the brush thereby cleanses or removes the fine flour from the meshes of the silk throughout the whole surface of the sides of the reel at every revolution of such reel, and thereby keeps open the interstices of the silk or gauze to facilitate the passage of the flour.

The brush is lowered into gear or raised out of gear by means of the vertical rods J, actuated by the hand-lever K.

The silk or gauze covered sides of the reel are represented at L, the outer case thereof at O, and the drum or pulley for driving the reel at M.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

1. The combination, with a bolting-surface, of a revolving brush having its bristles or fibers arranged on its cylinder in the manner described—namely, with a portion of them extending in practically longitudinal or straight lines from end to end, and with others arranged in right and left hand spiral lines, all substantially as shown and described.

2. In combination with the reel provided with flanges, as set forth, a brush provided with pulleys E E, adapted to bear or press on said flanges and to be driven thereby.

3. In combination with the reel, the pulley driven by contact therewith, the revolving brush, and the means described for raising and lowering the pulleys, consisting of the links F, rods J, and lever K.

4. In combination, the flanged reel, the revolving brush and its pulleys E E, the links F, rods J, lever K, and spring P, all substantially as and for the purpose set forth.

J. W. CROSBY.

Witnesses:
W. J. BAKER,
S. RICHARDSON.