(No Model.)

L. B. FIECHTER.

CENTRIFUGAL REEL.

No. 306,329. Patented Oct. 7, 1884.

Fig. 2.

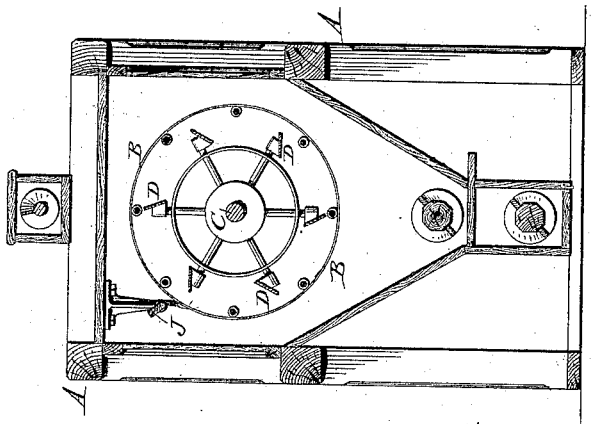


Fig. 3.

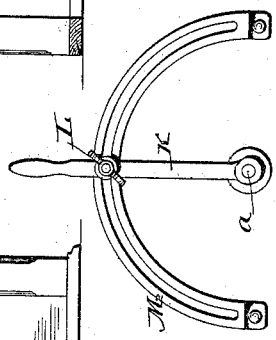
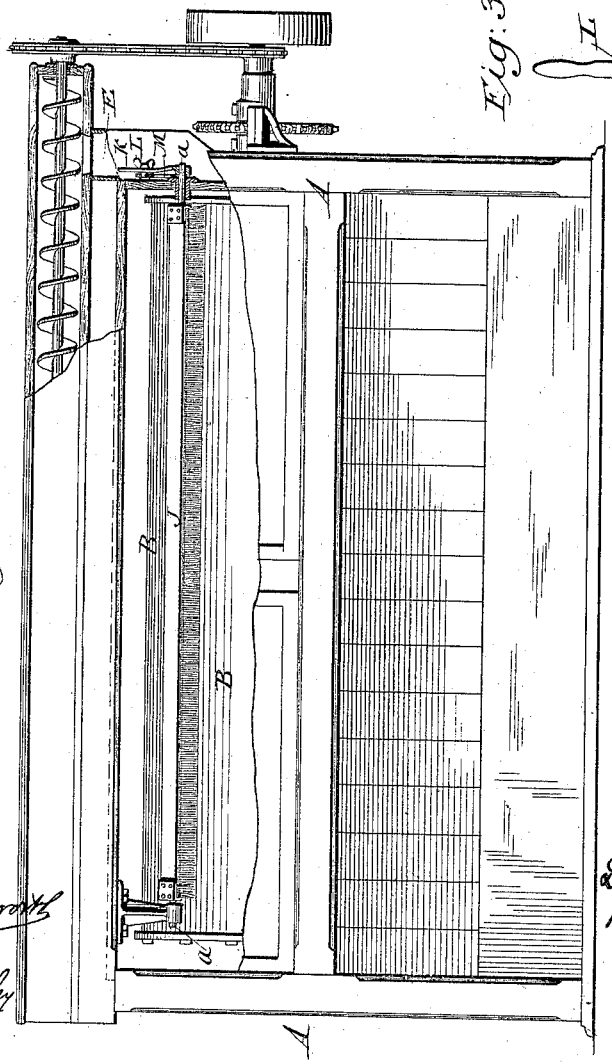


Fig. 1.



Attest.

Sidney P. Hollingsworth

Harry Shipley

Inventor.
L. B. Fiechter
By his atty.
Philip T. Dodge

UNITED STATES PATENT OFFICE.

LOUIS B. FIECHTER, OF MINNEAPOLIS, MINNESOTA.

CENTRIFUGAL REEL.

SPECIFICATION forming part of Letters Patent No. 306,329, dated October 7, 1884.

Application filed August 16, 1883. Renewed July 3, 1884. (No model.)

To all whom it may concern:

Be it known that I, LOUIS B. FIECHTER, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain Improvements in Centrifugal Reels, of which the following is a specification.

My invention relates to that class of centrifugal reels or flour-dressing machines wherein a horizontal bolting cylinder or reel is combined with a series of longitudinal blades or beaters revolving therein.

The object of the invention is to secure the removal of the material adhering to the exterior surface of the reel without subjecting the latter to the rapid wear which results from the use of a continuously-acting brush; and to this end it consists in the combination, with the reel or cylinder, of a stationary brush sustained by journals, one of which is extended through the end of the machine and provided with operating and clamping devices at the outer end, whereby it may be turned to bear with more or less pressure upon the exterior of the reel or turned out of contact therewith.

Referring to the accompanying drawings, Figure 1 represents a side elevation, partly in section, of a machine having my improvements embodied therein. Fig. 2 is a vertical cross-section of the same. Fig. 3 is an end elevation of the lever and clamping devices by which the brush is adjusted and secured.

With the exception of the peculiarities hereinafter specified as constituting the subject-matter of my invention, the machine may be of any ordinary or approved construction.

I have represented herein a machine of ordinary form, similar in the general arrangement of its parts to those represented in Letters Patent of the United States heretofore granted to me.

Referring to the drawings, A represents the body of the machine, consisting of a strong rectangular frame suitably inclosed to form a case or chamber; B, a horizontal revolving reel mounted within the body, and C the main shaft, extending centrally through the reel and provided with arms or disks carrying a series of longitudinal blades or beaters, D, the outer edges of which travel in close proximity to the inner surface of the reel or cylinder.

The machine is provided, as usual, with a feed-spout, E, through which the material is delivered into the interior of the reel, this spout being located, in the present instance, at one end, although in double machines it may be located at the center, if preferred.

The foregoing parts may be constructed, arranged, and driven in the ordinary manner.

In applying my improvement to the brush for keeping the bolting-surface clear it will be seen, on reference to Figs. 1, 2, and 3, that the brush J, extending lengthwise of the machine, is sustained at its ends by means of journals or trunnions *a*, sustained in fixed bearings, one of the journals being projected on the outside of the machine and provided with a hand-lever, K, by means of which the brush may be turned in such position as to throw its bristles out of contact with the bolting-cloth, or against the same with such degree of pressure as may be required. The lever K is provided with a thumb-screw, L, passing through a slotted fixed plate, M, by means of which the lever and brush may be locked in the position required.

I am aware that stationary adjustable brushes have been combined with bolting-reels in various forms and under various arrangements, and also that rotary brushes have been employed in a like combination.

The arrangement represented in the drawings for giving support to the brush is advantageous because of its simplicity and of the fact that no openings are afforded for the escape of the dust or flour from the interior.

What I claim as my invention is—

The combination of the revolving reel, the brush supported by journals, one of which is extended through the end of the body, the external hand-lever, and the locking device for said lever, substantially as described and shown.

LOUIS B. FIECHTER.

Witnesses:
JOHN T. ARMS,
GEO. I. HILL.