

(No Model.)

L. HERTZLER.
ROTARY BOLT FOR FLOUR.

No. 522,522.

Patented July 3, 1894.

Fig. 1.

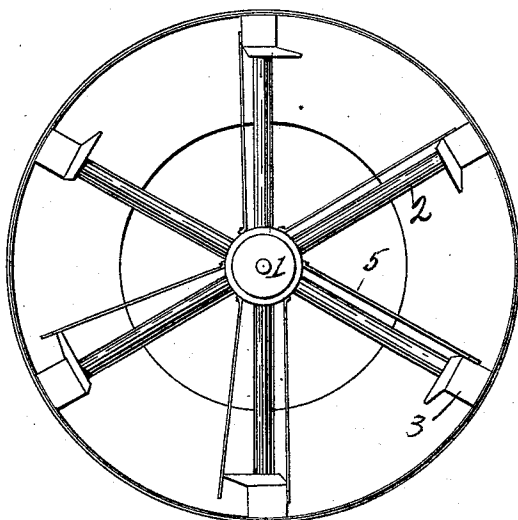


Fig. 2.

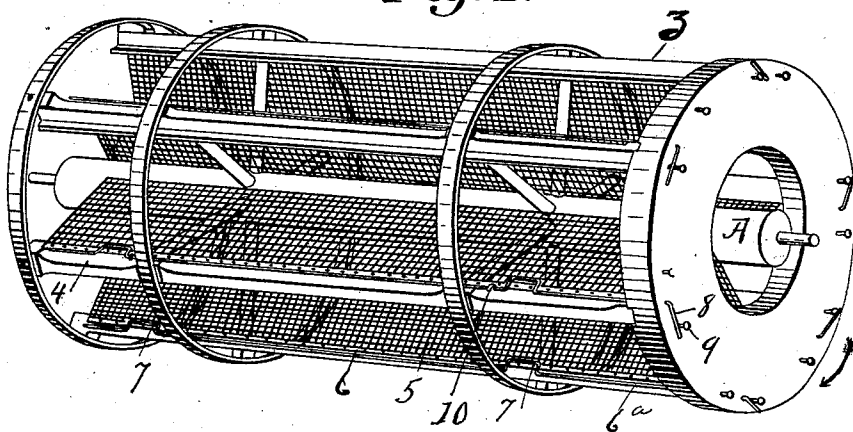
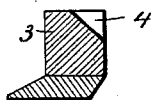


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

LEVI HERTZLER, OF MECHANICSBURG, PENNSYLVANIA.

ROTARY BOLT FOR FLOUR.

SPECIFICATION forming part of Letters Patent No. 522,522, dated July 3, 1894.

Application filed March 15, 1894. Serial No. 503,718. (No model.)

To all whom it may concern:

Be it known that I, LEVI HERTZLER, a citizen of the United States of America, residing at Mechanicsburg, in the county of Cumberland and State of Pennsylvania, have invented certain new and useful Improvements in Rotary Bolts for Flour, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in bolting reels for flour, the following being such a full, clear and exact description as will enable others skilled in the art to which it appertains to make and use the same.

The object of the invention is to provide in bolting reels for flour means for automatically cleaning the screens employed, thereby increasing the capacity and efficiency of said reels.

A further object of the invention is the provision of novel means whereby screens may be fixedly secured or released at the will of the operator; in which latter condition the said screen will fall and cause the stock which has collected in the meshes of the cloth to jar loose and fall out.

A further object of my invention is the production of a device which will possess advantages in strength and durability and at the same time be simple of construction, efficient and satisfactory in use and comparatively inexpensive of manufacture.

The invention further consists in the peculiar formation of the ribs for the purpose and advantages to be hereinafter referred to.

Finally the invention consists in the various novel details of construction, arrangement and combination of parts to be hereinafter more fully described and specifically pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings forming part of this specification, and wherein like characters of reference indicate corresponding parts in the several views, of which—

Figure 1, is an end view of a bolting reel with the head removed and with the locking levers for securing the screens omitted. Fig. 2, is a perspective view of the same with the outer cloth removed. Fig. 3, is a vertical sectional view of one of the ribs.

In the drawings, 1, denotes the shaft of an ordinary bolting reel provided with the series of radial projections 2, 2, to which are secured ribs 3, forming the frame work of the reel. The ribs 3 are provided with a bevel 4 allowing a portion of the stock to drop on the ascending side of the cloth, thereby producing a more uniform distribution of the stock on the cloth.

The screens 5 are secured to the shaft 1, in any suitable manner and are bound at 6 to prevent fraying of the same; the whole screen being supported on the radial projections and ribs heretofore described.

The rods 6^a are bent to form projections 7, 7, which engage the screens as shown and retain it in position when desired. If the screens are to be released the angular projections 8 of the rod should be sprung on the opposite side of the securing pin 9 when front movement will be allowed, while the securing of the screen again can be readily accomplished as will be obvious. These rods are secured in place by staples 10.

The construction will be understood from the foregoing description and it will be noted that various changes may be made in the proportions and detailed construction without departing materially from the general idea involved.

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

1. A bolting reel provided with radial projections and longitudinal ribs, said longitudinal ribs provided with beveled rear faces, the screens attached to the shaft and detachably secured at the outer end substantially as and for the purpose specified.

2. A bolting reel provided with a shaft, radial projections and longitudinal ribs with beveled rear faces, and screens, in combination with the rods by which the screens are detachably secured to the ribs for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

LEVI HERTZLER.

Witnesses:

THEO. CORNMAN,
ARTHUR R. RUPLEY.