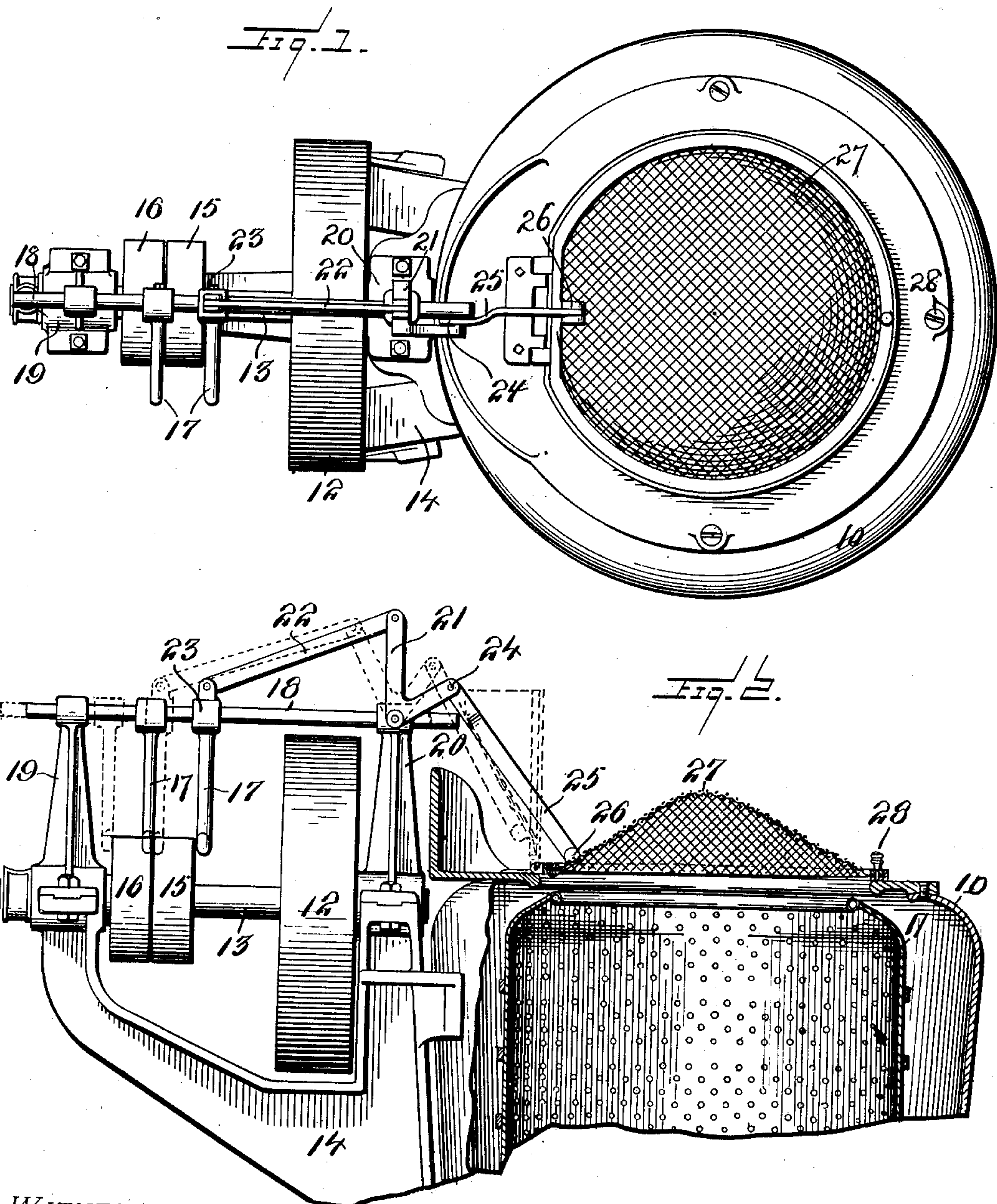


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CENTRIFUGAL EXTRACTOR.

APPLICATION FILED FEB. 26, 1909.

924,864.

Patented June 15, 1909.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY S. WILCOX AND WILLIAM BARTHOLOMEW, OF CHICAGO, ILLINOIS, ASSIGNORS TO
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NEW YORK.

CENTRIFUGAL EXTRACTOR.

No. 924,864.

Specification of Letters Patent.

Patented June 15, 1909.

Application filed February 26, 1909. Serial No. 480,224.

To all whom it may concern:

Be it known that we, HENRY S. WILCOX and WILLIAM BARTHOLOMEW, citizens of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Centrifugal Extractors, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to means controlled in the movement of a cover for actuating the driving mechanism for a centrifugal extractor or other machine.

The object of the invention is to provide a belt shifting or power controlling device directly connected to a swinging cover by means of a crank arm and intermediate connections so that the opening movement of the cover causes the power to be shifted into nonoperative position, while in the closing thereof the power is applied for the operation of the machine.

Other and further objects and advantages of the invention will be hereinafter fully set forth and the novel features thereof defined by the appended claims.

In the drawing:—Figure 1 is a plan of the invention, and Fig. 2 is an elevation with parts of the extractor in section.

The numeral 10 indicates the casing of the extractor, the revolving basket or carrier 11 thereof being driven from the pulley 12 upon the power shaft 13 in the usual manner. This shaft is mounted in the bracket 14 extended from the casing 10 and is provided with the fast pulley 15 secured thereto and the loose pulley 16 rotatable thereon. These pulleys are adapted to cooperate with any desired form of belt shifting mechanism, for instance the shifting arms or fingers 17 which are rigidly mounted on the slidable rod 18 carried in the bearing standards 19 and 20 at its opposite ends. Mounted upon the standard 20 is a crank lever 21 one arm of which is connected by the link 22 with the body 23 of one of the shifting arms. The opposite end 24 of the crank lever is connected by the link 25 which is pivoted at 26 to the pivoted cover or protector 27 which incloses the upper portion of the extractor casing and prevents access thereto while the same is in action. This cover is provided with any suitable handle 28 by which it may be readily operated.

In the operation of the invention when the

cover is opened into the position shown by dotted lines in Fig. 2 the belt is shifted to the loose pulley and the power thus shifted from the driving shaft so that the rotation of the basket is prevented and all injury or damage due to an endeavor to introduce material into the basket while revolving at a high speed is prevented. When the material has been properly introduced into the basket or removed therefrom as may be desired, the cover is again closed and by its direct connection at once shifts the belt to the driving pulley beginning the rotation of the basket during the closing movement so that no time is lost after the introduction of the clothes in the operation of a separate starting or stopping lever, while the opening of the machine while in motion is rendered impossible. The construction and arrangement provides a positive connection giving the necessary leverage to insure a full shifting of the belt, and owing to the disposition of the connecting link at the portion of the cover adjacent its pivot this link is entirely removed from interference in the use of the machine and is given the minimum movement to accomplish through the long arm of the crank lever the greater degree of shift necessary to move the belt from one pulley to the other.

Having described our invention and set forth its merits, what we claim and desire to secure by Letters Patent is:—

1. In a centrifugal extractor, the combination with a power controlling mechanism, of an intermediate actuating lever, a movable cover member, a direct connection from said cover to said lever, and a connection from said lever to said power controlling mechanism.

2. In a centrifugal extractor, the combination with a belt shifting mechanism, of a pivoted cover, and oppositely connected intermediate members extending from said cover to said belt shifting mechanism.

3. In a centrifugal extractor, the combination with a belt shifting mechanism, of a pivoted cover, a crank lever, a connection from said crank lever to said belt shifting mechanism, and a connection from said lever to said cover.

4. In a centrifugal extractor, the combination with a belt shifting mechanism, of a pivoted cover, a crank lever, a connection from said crank lever to said belt shifting mechanism, and a connecting link from said lever

pivoted to said cover adjacent to the pivot thereof.

5 5. In a centrifugal extractor, the combination with a power shaft provided with fast and loose pulleys thereof, a parallel rod, a belt shifter slidably mounted with said rod, an actuating lever connected to said shifter, and a movable cover connected to said actuating lever.

0 6. In a centrifugal extractor, the combination with a slidably mounted belt shifter, of

a bell crank lever, a link extending from one arm of said lever to said shifter, a pivoted cover member, and a link extended from the opposite arm of said lever to said cover. 15

In testimony whereof we affix our signatures in presence of two witnesses.

HENRY S. WILCOX.

WILLIAM BARTHOLOMEW.

Witnesses:

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