E. D. MACKINTOSH.

CENTRIFUGAL MACHINE DISCHARGER.

APPLICATION FILED MAY 13, 1919.

1,326,411. Patented Dec. 30, 1919.

Fig. 1.

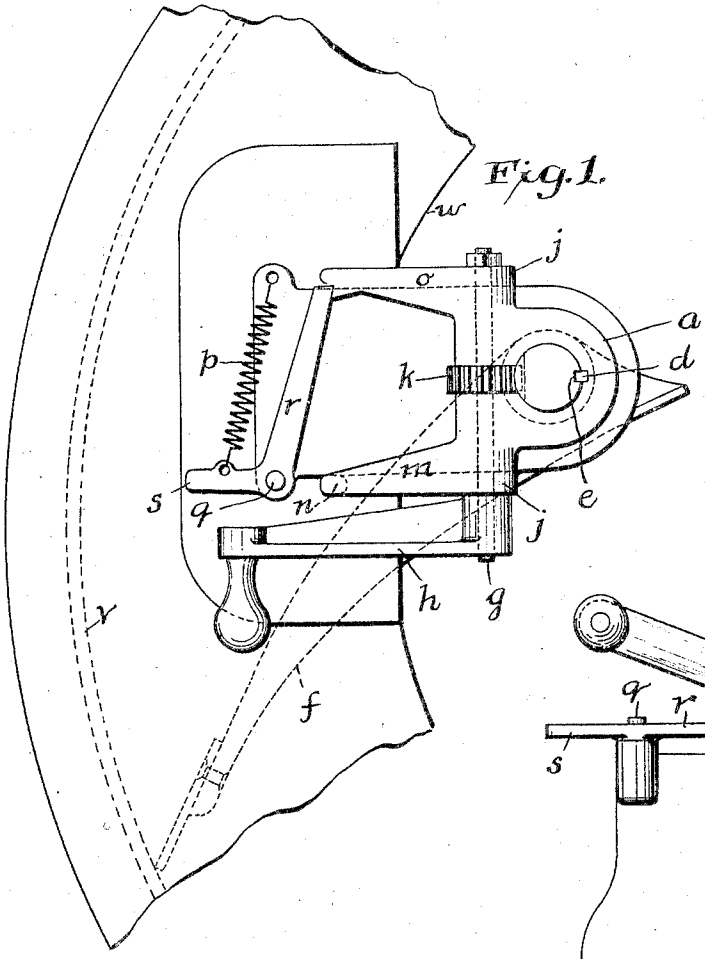
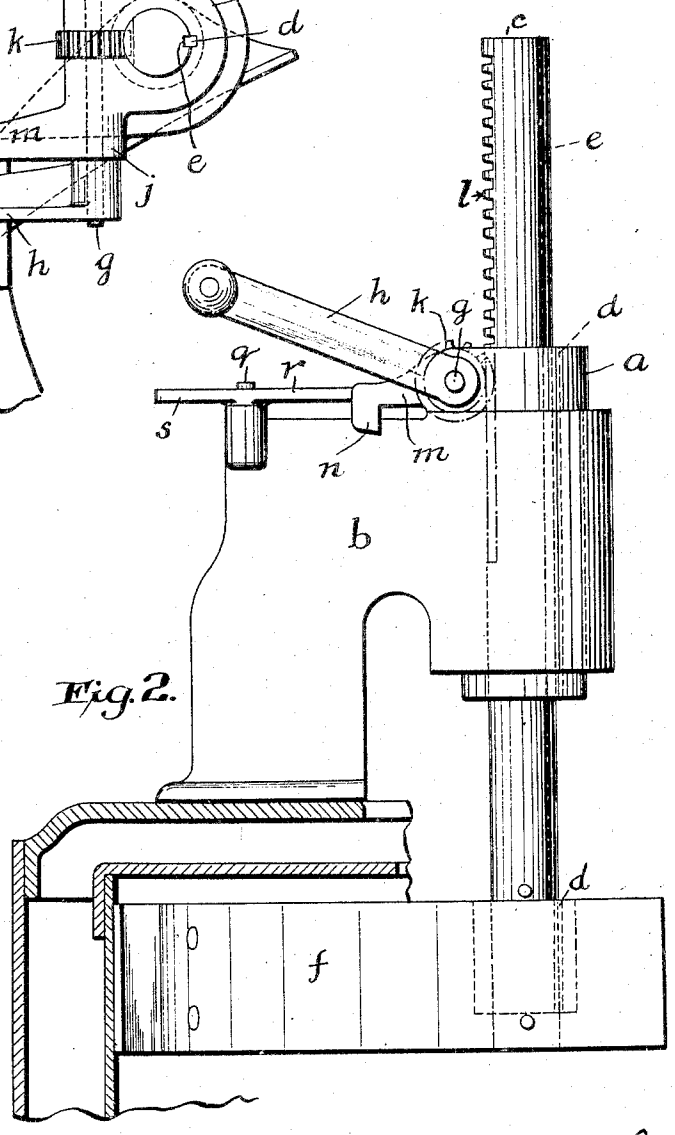


Fig. 2.



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CENTRIFUGAL-MACHINE DISCHARGER.

1,326,411. Specification of Letters Patent. Patented Dec. 30, 1919.

Application filed May 13, 1919. Serial No. 296,909.

To all whom it may concern:

Be it known that I, EDWARD D. MACKINTOSH, a citizen of the United States, residing at Brooklyn, in the county of Kings and the State of New York, have invented an Improvement in Centrifugal-Machine Dischargers, of which the following is a specification.

The object of my invention is to afford complete control of the discharger with one hand and to reduce the wear on the lining of the centrifugal machine and the scraper of the discharger. Referring to the accompanying drawing forming part of this specification, Figure 1 is the top plan of my invention and Fig. 2 is an elevation.

A sleeve, *a*, is journaled in a fixed bracket, *b*, to swing about a vertical axis. A rod, *c*, is movable vertically in the sleeve and turns therewith because of a feather, *d*, fixed to the sleeve and extending into a spline, *e*, in the rod. Fixed to the end of the rod below the sleeve is a plow, *f*, adapted to guide the contents of the basket of the centrifugal machine from the wall, *v*, thereof to its central discharge opening, *w*. Then such contents are pushed against the plow by the rotation of the basket. The sleeve, *a*, is provided with arms, *m* and *o*, one of which, *m*, has a lug, *n*, in contact with the bracket, *b*, and the other of which bears against a latch, *r*, with a tail piece, *s*, pivoted at *q*. This latch is kept normally in place by a spring, *p*, but when it is decided to swing the sleeve in order to remove the plow from the basket, pressure of the thumb on the tail piece, *s*, disengages the latch from engagement with the arm, *o*.

To move the plow vertically in the basket the rod to which it is fixed is provided with teeth, *l*, meshing with a pinion, *k*, and this pinion and hand crank are both fixed to a shaft, *g*, journaled in bearings on the sleeve, *a*.

It will be noted that the only parts to be handled, in controlling every movement of the discharger, are the handle, *h*, and the latch, *r*, and that the latter needs only a momentary touch with the thumb, while the hand retains its grasp on the handle.

I claim:—

1. In a centrifugal machine discharger, a fixed bracket, a sleeve journaled therein to swing about a vertical axis, a rod movable only vertically in the sleeve, a hand crank journaled in bearings on the sleeve, a pinion fixed to the hand crank and engaging teeth on the rod, and a plow fixed to the rod below the sleeve.

2. In a centrifugal machine discharger, a fixed bracket, a sleeve journaled therein to swing about a vertical axis, a stop or stops adapted to be brought into or thrown out of action to prevent the sleeve from swinging or to permit it to swing, a rod movable only vertically in the sleeve, a hand crank journaled in a bearing on the sleeve, a pinion fixed to the hand crank and engaging teeth on the rod, and a plow fixed to the rod below the sleeve.

EDWARD D. MACKINTOSH.