2 Sheets—Sheet 1.

F. KRUSE.
Flour-Bolt.

No. 198,889. **Patented Jan. 1, 1878.**

Fig. 1.

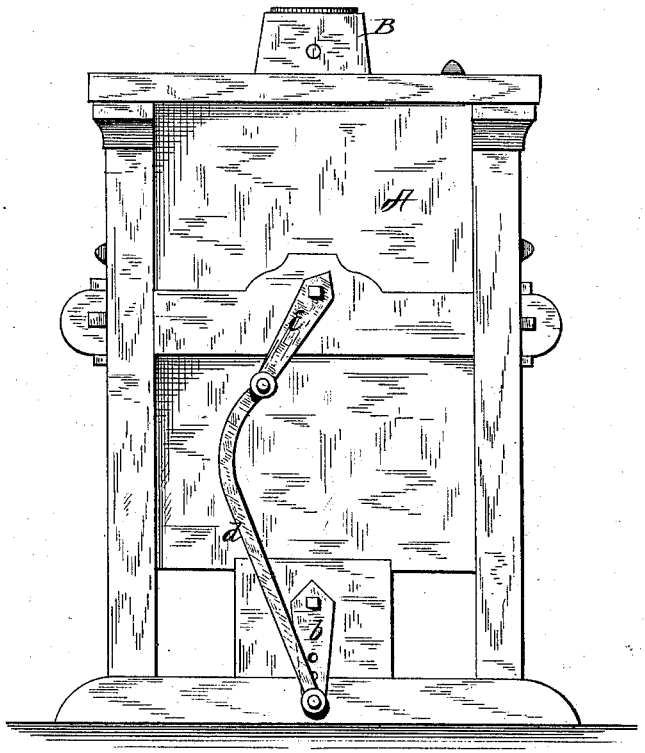
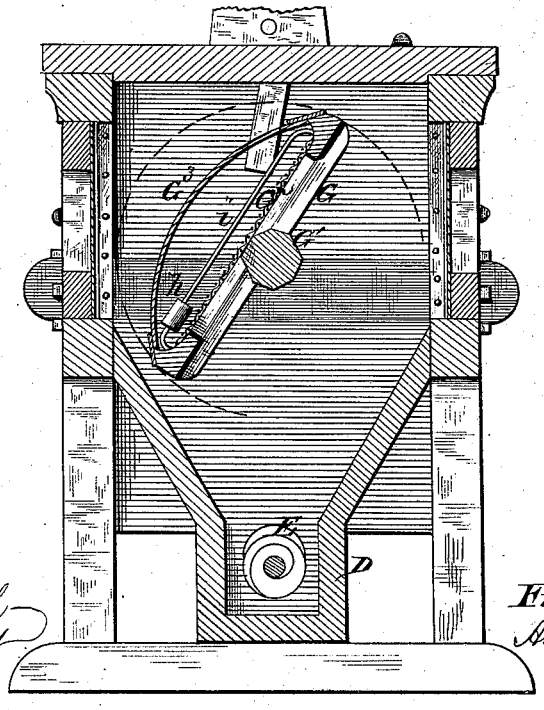


Fig. 2.



WITNESSES
Franck L. Durand
Frank Galt

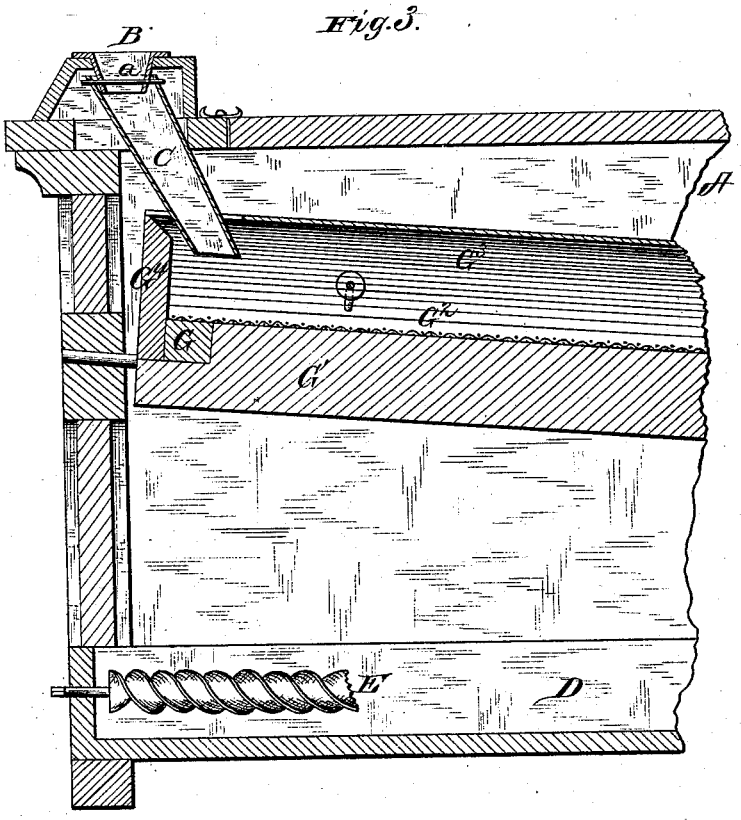
INVENTOR
Frederick Kruse.
Alexander Mason
ATTORNEYS

2 Sheets—Sheet 2.

F. KRUSE.
Flour-Bolt.

No. 198,889. Patented Jan. 1, 1878.

Fig. 3.



WITNESSES
Franck L. Durand
Frank Gault

INVENTOR
Frederick Kruse.
Alexander Mason
ATTORNEYS

UNITED STATES PATENT OFFICE.

FREDRICK KRUSE, OF COATSBURG, ILLINOIS.

IMPROVEMENT IN FLOUR-BOLTS.

Specification forming part of Letters Patent No. **198,889**, dated January 1, 1878; application filed October 11, 1877.

To all whom it may concern:

Be it known that I, FREDRICK KRUSE, of Coatsburg, in the county of Adams, and in the State of Illinois, have invented certain new and useful Improvements in Flour-Bolters; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a flour-bolt, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is an end elevation of my improved flour-bolt. Fig. 2 is a tranverse vertical section of the same, and Fig. 3 a longitudinal vertical section of one end thereof.

A represents the frame or box of my machine, provided with a hopper, B, on top at one end. At the bottom of this hopper is suspended a conductor or chute, C, by means of a rod, *a*, which will allow said conductor to swing from side to side, as required by the oscillation of the riddle underneath.

The lower portion of the sides of the box or frame A are inclined inward, so as to contract and convey the bolted flour to the conveyer-box D underneath. In this box is an ordinary screw-conveyer, E, rotated by any suitable means, to carry out the flour.

On one of the journals of the conveyer E is attached a crank, *b*, which is, by a pitman, *d*, connected with a crank, *e*, attached to the journal of the riddle-frame G, attached to a longitudinal shaft, G^1, which is placed in suitable boxes in the ends of the frame A. The riddle-frame G is provided with the bolting-cloth G^2, and the riddle thus formed is covered by cloth G^3, arranged in arched form over the same. The riddle is hung in a slightly-inclined position, and at its upper end it has a head, G^4, between which and the end of the covering G^3 is left an opening for the passage of the conductor C.

It will readily be seen that, by the rotation of the conveyer E through the crank *b*, pitman *d*, and crank *e*, the riddle obtains an oscillating motion, and the flour on the same is thrown from side to side, passing through the bolting-cloth, while the coarse flour, middlings, &c., are discharged at the end of the riddle.

At any suitable point on the riddle is a cross bar or rod, *i*, on which is a sliding weight, *h*, which moves from end to end of the rod as the riddle oscillates, and thus produces a knocking or jarring on the riddle to facilitate the passage of the flour through the bolting-cloth.

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

The combination of the rotating conveyer E, with crank *b* on its end, the adjustable pitman *d*, crank *e*, riddle G, with shaft G^1, the rod *i*, and sliding weight *h*, all constructed and arranged to operate substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 15th day of September, 1877.

FREDRICK KRUSE.

Witnesses:

FRANK GALT,

N. L. VAN VALER.