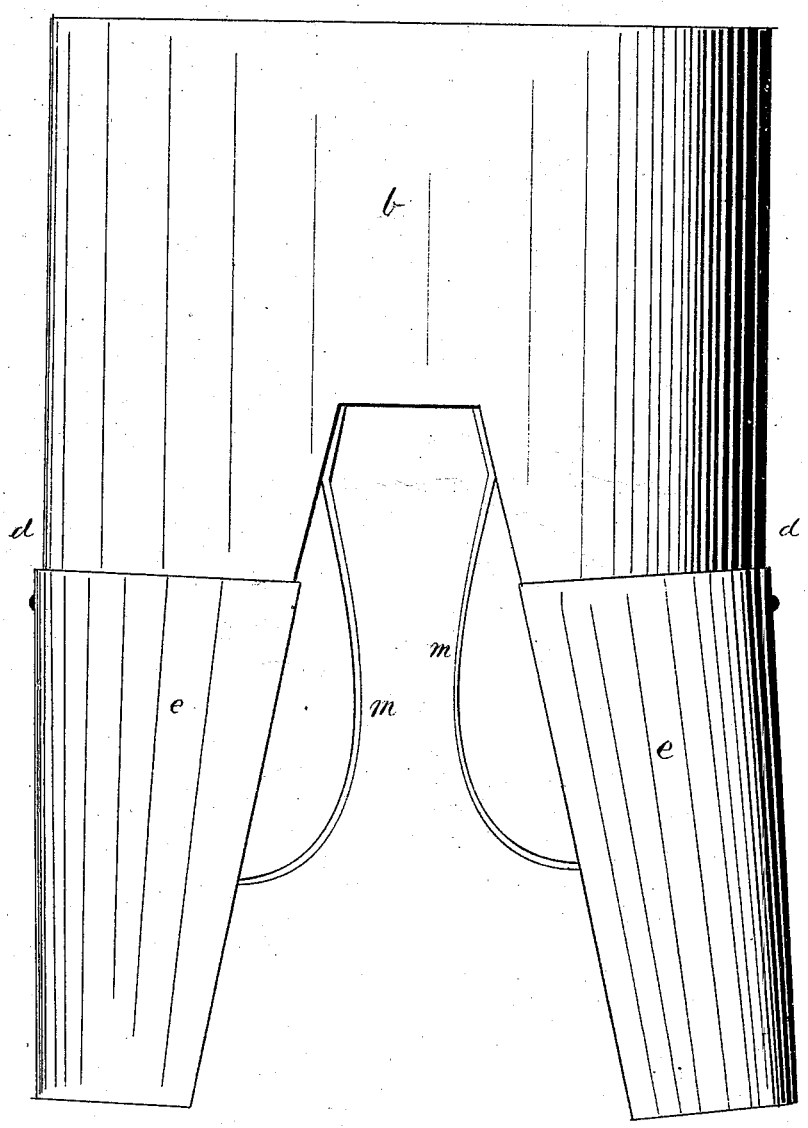
2 Sheets—Sheet 1.

F. M. FORD & J. F. HICKS.

FEED-REGULATOR.

No. 169,982. Patented Nov. 16, 1875.

FIG 1.



WITNESSES:

Allen H Barnes

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2 Sheets—Sheet 2.

F. M. FORD & J. F. HICKS.

FEED-REGULATOR.

No. 169,982. Patented Nov. 16, 1875.

FIG 2.

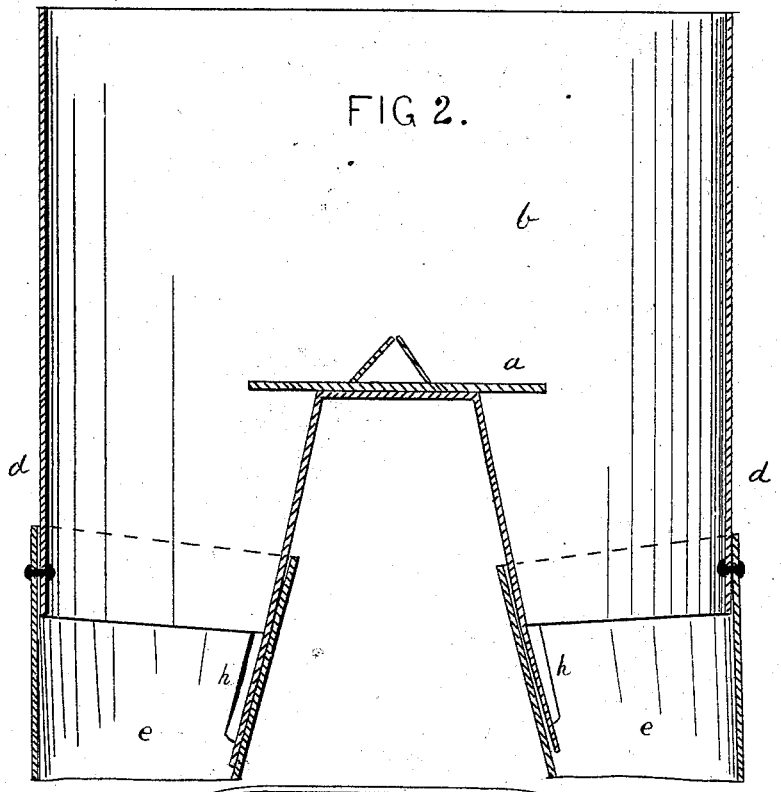
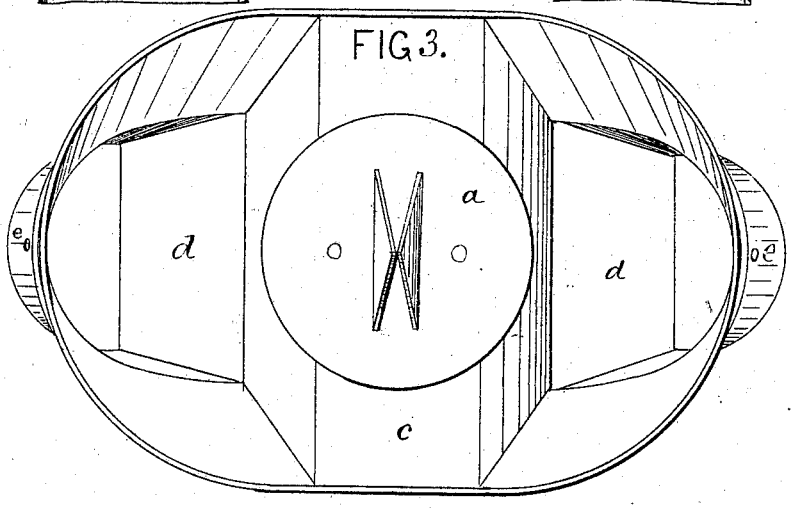


FIG 3.



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UNITED STATES PATENT OFFICE.

FRANCIS M. FORD AND JOHN F. HICKS, OF BRISTOL, TENNESSEE.

IMPROVEMENT IN FEED-REGULATORS.

Specification forming part of Letters Patent No. **169,982**, dated November 16, 1875; application filed September 7, 1875.

To all whom it may concern:

Be it known that we, FRANCIS MARION FORD and JOHN FRANKLIN HICKS, of Bristol, county of Sullivan and State of Tennessee, have invented an Improved Feed-Mill.

The following description, taken in connection with the accompanying plate of drawings, hereinafter referred to, forms a full and exact specification, wherein are set forth the nature and principles of the invention, by which the same may be distinguished from others of a similar class, together with such parts thereof as are claimed as new and are desired to be secured by Letters Patent of the United States.

My invention relates to feeding mechanism for grinding-mills; and the nature thereof consists in certain improvements in the details of the construction of the same, hereinafter shown and described.

In the accompanying plate of drawings, in which corresponding parts are designated by the same letters, Figure 1 is a side elevation. Fig. 2 is a vertical section. Fig. 3 is a top view.

In said drawings, *a* designates a disk arranged in the center of the cup *b*, and provided with a cross-piece, *c*. The said disk revolves under the tube communicating with the hopper of the mill, which conveys the grain into the cup for distribution, and the said cross-piece prevents it from becoming clogged in the tube. The tubes consist of the upper sections *d* and lower sections *e*. The said upper sections are provided with downwardly-projecting flanges *h* and openings, by means of which they are loosely bolted to the lower sections. Springs *m* are attached to the bottom of said cup, the ends of which force the lower sections outward against the stone and under the mechanism adjustable to any sized stone. The said springs also serve to hold the cup to the balance-iron.

The operation and advantages of the mechanism will be clearly understood by those skilled in the art without further description.

Having thus described our invention, we claim and desire to secure by Letters Patent—

The combination of the sections *d*, provided with downwardly-projecting flanges *h*, the lower sections *e*, loosely bolted to the upper sections, and springs *m*, which hold the lower sections of the tube against the stone, all relatively arranged as and for the purposes described.

In testimony that we claim the foregoing we have hereunto set our hands this 9th day of August, 1875.

FRANCIS MARION FORD.
JOHN FRANKLIN HICKS.

Witnesses:
O. G. BAILEY,
J. M. KING.