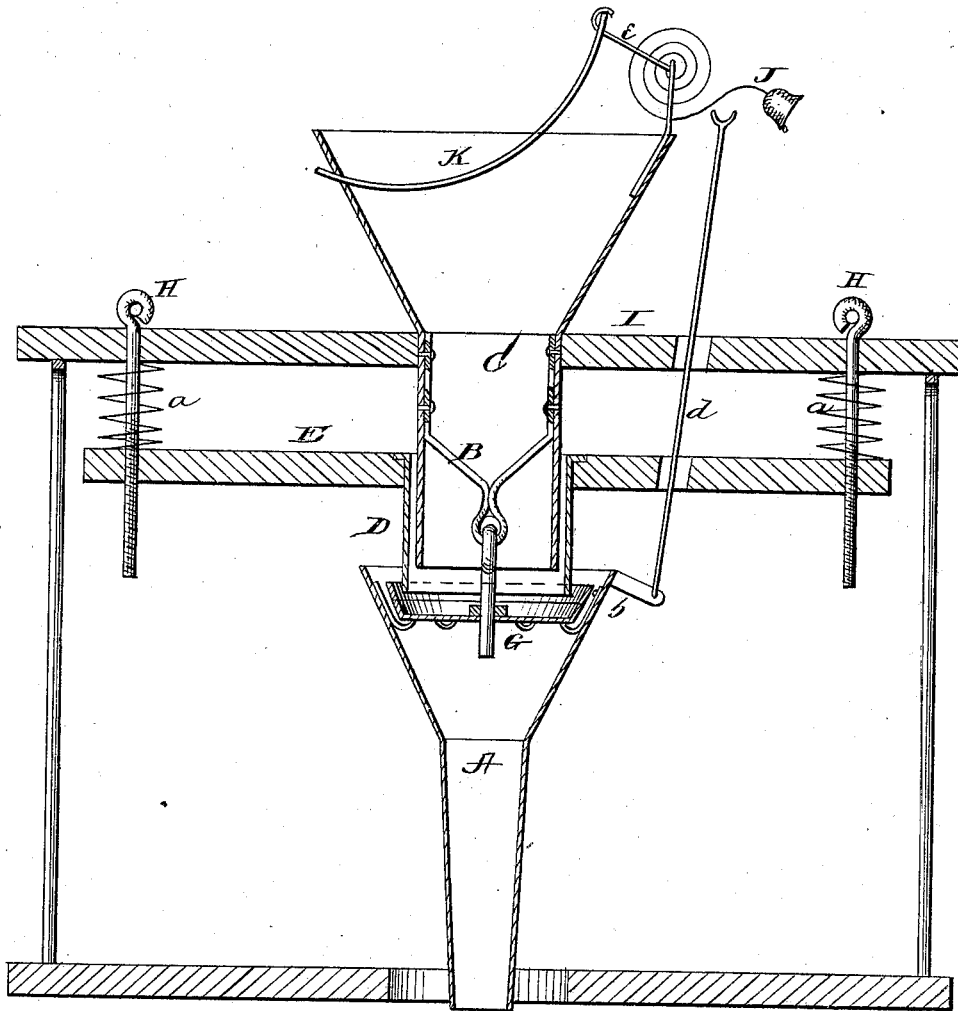


W. STEELE.  
Feed-Regulator for Millstones.

No. 199,591.

Patented Jan. 22, 1878.



WITNESSES  
*Frank L. Curran*  
*Wm. S. P.*

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ATTORNEYS

# UNITED STATES PATENT OFFICE.

WILLIAM STEELE, OF MOFFATT'S CREEK, VIRGINIA.

## IMPROVEMENT IN FEED-REGULATORS FOR MILLSTONES.

Specification forming part of Letters Patent No. **199,591**, dated January 22, 1878; application filed November 26, 1877.

*To all whom it may concern:*

Be it known that I, WILLIAM STEELE, of Moffatt's Creek, in the county of Augusta, and in the State of Virginia, have invented certain new and useful Improvements in Feeders and Tell-Tales for Mills; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, 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 feeding device and tell-tale for mills, 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 drawing, which represents a central vertical section of my machine.

A represents the discharge-funnel, the lower end of which is to extend down into the eye of the burr, through a bar in the same, and at one side of the center, so as to have a circular motion at its lower end. The funnel A is suspended by means of a fork, B, riveted fast on each side of the neck of the stationary hopper C.

D is a tube fixed permanently in a bar, E, as shown. This tube surrounds the lower end of the hopper, and extends down into a cup, G, in the mouth of the funnel A. This tube D is for the purpose of regulating the feed of whatever material is being ground by means of a screw, H, supporting the bar E. By turning these screws the tube D is raised or lowered, as required. The screws H are sur-

rounded by spiral springs *a a* between the bar E and the curbing I, in which the hopper C is fixed.

When thus arranged it is for the purpose of grinding wheat.

By removing the cup G and substituting the plate G', the machine is ready for feeding coarse flour, plaster, or cement.

The springs *a*, surrounding the screws H, are for the double purpose of holding it steady, and of allowing the larger lumps of crushed plaster to escape, and forcing it back to its position.

To the outside of the funnel A is attached an arm, *b*, from which a wire, *d*, extends up through the machine to the bell J, fastened to the rim of the hopper C. Across the mouth of this hopper is a valve, K, connected to an arm, *e*, projecting from the shaft to which the bell is attached. The wheat, pouring down through a spout on the valve K, raises the bell and prevents it from ringing until the wheat ceases to flow, when the bell sinks and the wire *d* sets it to ringing.

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

The combination of the tube D, bar E, screws H, and springs *a* with the discharge-funnel A and cup G, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of October, 1877.

WM. STEELE.

Witnesses:

DAVID E. EAST,  
W. R. TURK.