

G. S. THOMPSON.
Hoppers for Grinding Mills.

No. 138,212.

Patented April 22, 1873.

Fig. 1

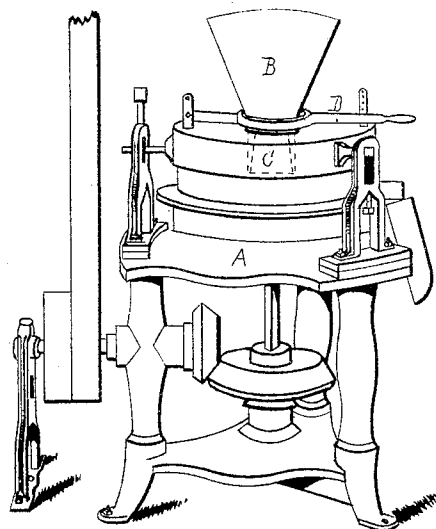


Fig. 2

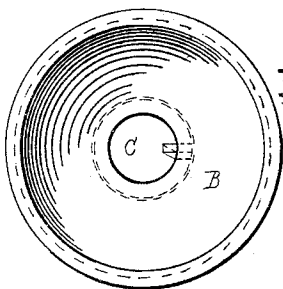


Fig. 3

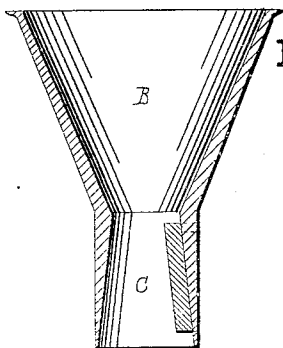
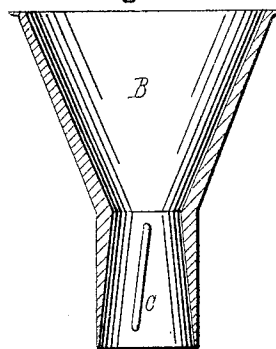


Fig. 4



WITNESSES.

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UNITED STATES PATENT OFFICE.

GEORGE S. THOMPSON, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN HOPPERS FOR GRINDING-MILLS.

Specification forming part of Letters Patent No. **138,212**, dated April 22, 1873; application filed July 5, 1872.

To all whom it may concern:

Be it known that I, GEORGE S. THOMPSON, of the city and county of Philadelphia, and State of Pennsylvania, have invented an Improved Hopper for Grinding-Mills, of which the following is a specification:

The invention consists in making the waist or spout of a hopper conical internally, and straight or cylindrical externally. It is usually applied to mills for grinding paints and other wet stuffs. Its object is to feed the paint to the stones without sticking in the spout, and to permit the hopper to freely rise and lower.

Figure 1 is an elevation of a grinding-mill embodying my invention. Fig. 2 is an enlarged plan view of the hopper. Figs. 3 and 4 are sectioned elevations of Fig. 2.

A, Fig. 1, is a grinding-mill, and B the hopper of the same. Its spout C, or part which conveys the paint or other wet stuff to between the stones to be ground, (as shown in

dotted lines,) is cylindrical or straight on its exterior, and cone-shaped (or tapering) on its interior, the base of the cone being down, as shown at Figs. 2 3 4. The cylindrical exterior permits the hopper to rise and lower by means of the lever D. The gradual widening of the conical interior prevents the paint from obstructing and sticking, and feeds it easily and freely to the stones.

I claim as my invention—

The hopper B, in combination with the spout C, having a cylindrical exterior and a tapering or conical interior, both rising and lowering or adjustable together, substantially for the purpose shown and described.

In testimony whereof I hereunto sign my name in presence of two subscribing witnesses.

GEORGE S. THOMPSON.

Witnesses at signing:

FRANCIS D. PASTORIUS,
THOS. K. STERRETT.