

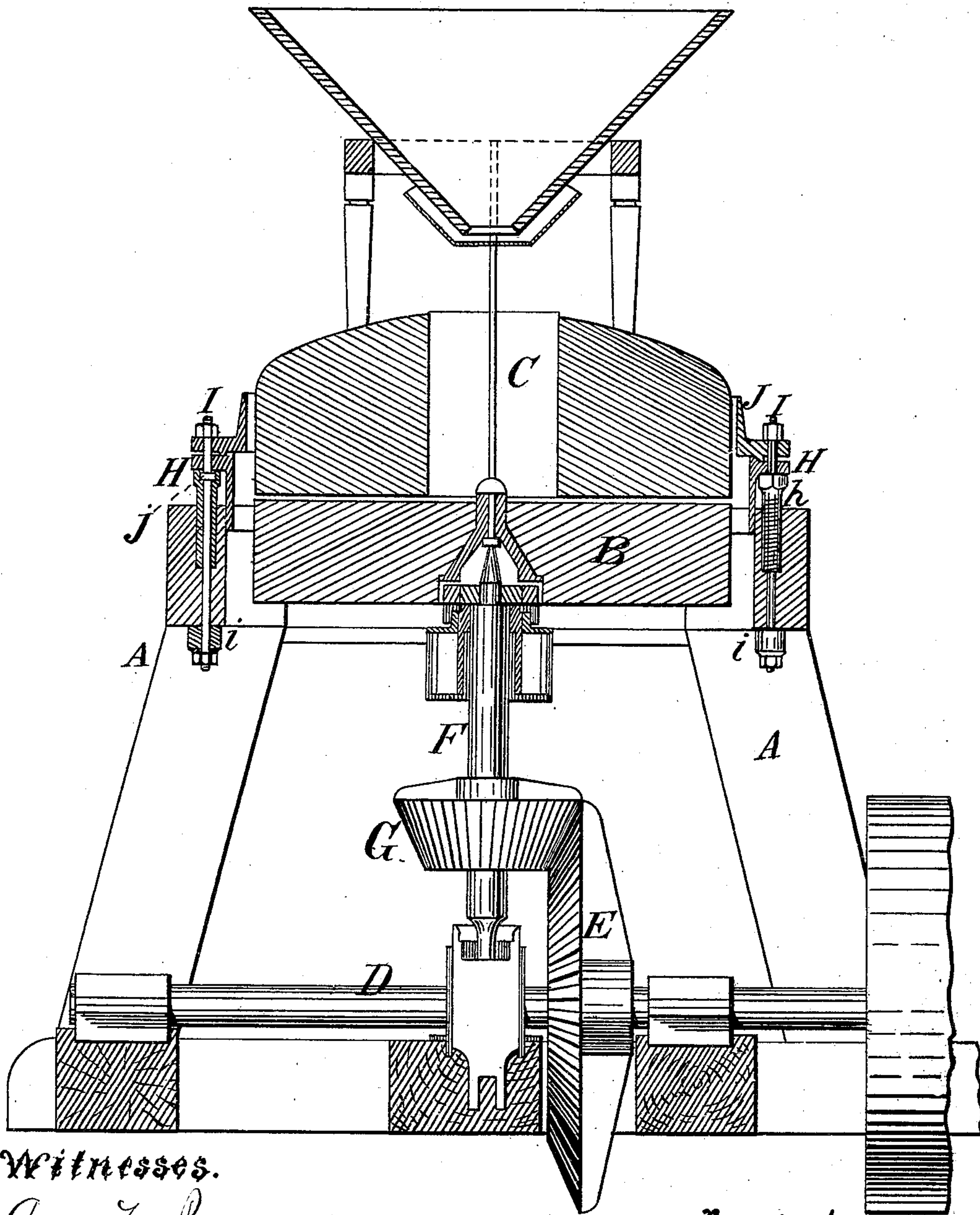
J. T. NOYE.

Tramming Bolts for Grinding Mills.

No. 142,809.

Patented September 16, 1873.

*Fig. 1.*



*Witnesses.*

*Amos W. Sangster  
Victor H. Becker*

*Inventor.*

*John T. Noye  
per  
Sangster & Becker  
Attys*

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Fig. 3.

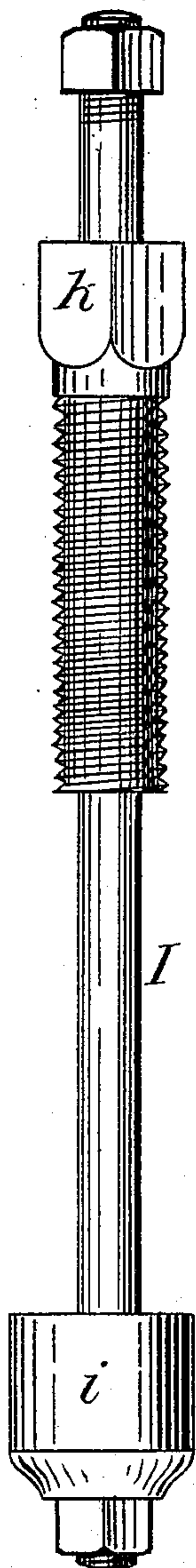


Fig. 2.

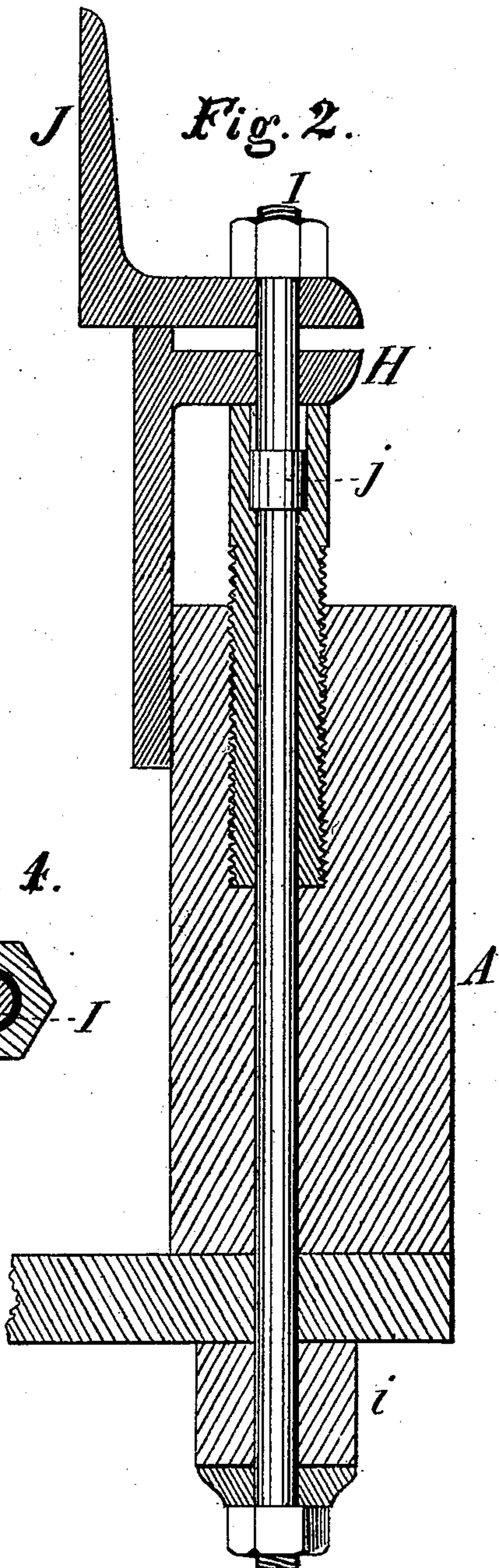
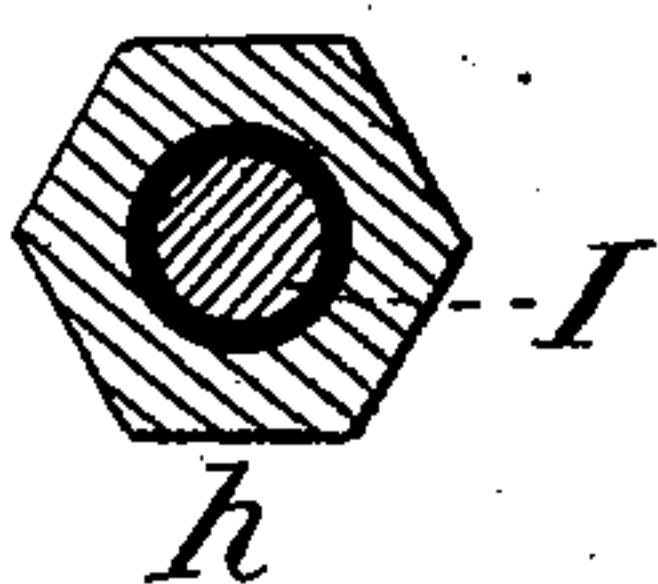


Fig. 4.



Witnesses.

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# UNITED STATES PATENT OFFICE.

JOHN T. NOYE, OF BUFFALO, NEW YORK.

## IMPROVEMENT IN TRAMMING-BOLTS FOR GRINDING-MILLS.

Specification forming part of Letters Patent No. **142,809**, dated September 16, 1873; application filed February 17, 1873.

*To all whom it may concern:*

Be it known that I, JOHN T. NOYE, of the city of Buffalo, in the county of Erie and the State of New York, have invented a new and useful Device for Tramming the Upper Stone of a Grain-Mill when the under stone is the runner, of which the following is a specification:

My invention consists in providing a tram-bolt device for tramming and securing the upper or stationary stone of a grain-mill (when the under stone is the runner) in such a manner that the stone once trammed will remain so, and not be affected or thrown out of tram when it becomes necessary to remove the upper stone.

In the accompanying drawings, consisting of two sheets, Figure I is a vertical section of my improved reversible-gear grain-mill provided with my tramming-bolts. Fig. II is an enlarged sectional view of the tramming-bolt, showing the manner of its application to the tramming-ring. Fig. III is a side elevation of the same. Fig. IV is a section on line *a b*, Fig. III.

A is the frame of a portable grain-mill. B is the lower or running stone. C is the upper or stationary stone. D is a horizontal shaft, which runs through an oblong opening in the bridge-tree under the spindle-point. This shaft extends across the entire bottom of the mill, and can be reversed at pleasure, thus bringing the driving-wheel on either side of the pinion. F is the vertical spindle on which

the running stone is hung, and by which it is driven. G is a pinion-wheel thereon, gearing into and driven by the bevel-wheel E. H is a tramming-ring resting on three or more hollow tramming-bolts, *h*, which are provided with screw-threads, and are screwed into the frame A. J is a cast-iron ring secured to the upper stone, and having a projecting flange, the face of the flange being turned to fit and correspond to the face of the flange of the tramming-ring H, and resting upon and supported by it. By means of the tram-bolts *h*, the face of the upper stone may be trammed, so as to bring its face parallel to the face of the under stone. Bolts I are then inserted through holes drilled in rings H and J, corresponding with holes through the center of the hollow tramming-bolts *h*. *i* is a rubber spring for the purpose of allowing foreign substances to pass between the stones without injury to the mill. *j* is a collar to hold the bolt I in position when the nut at the upper end thereof is removed.

I claim—

A tramming-bolt for grain-mills consisting of the hollow tramming-screw *h*, upon the upper face of which the tramming-ring is supported, and the bolt I passing through said hollow tramming-screw, with a nut upon each end, all being arranged substantially as and for the purpose set forth.

JOHN T. NOYE.

Witnesses:

AMOS W. SANGSTER,  
VICTOR H. BECKER.