

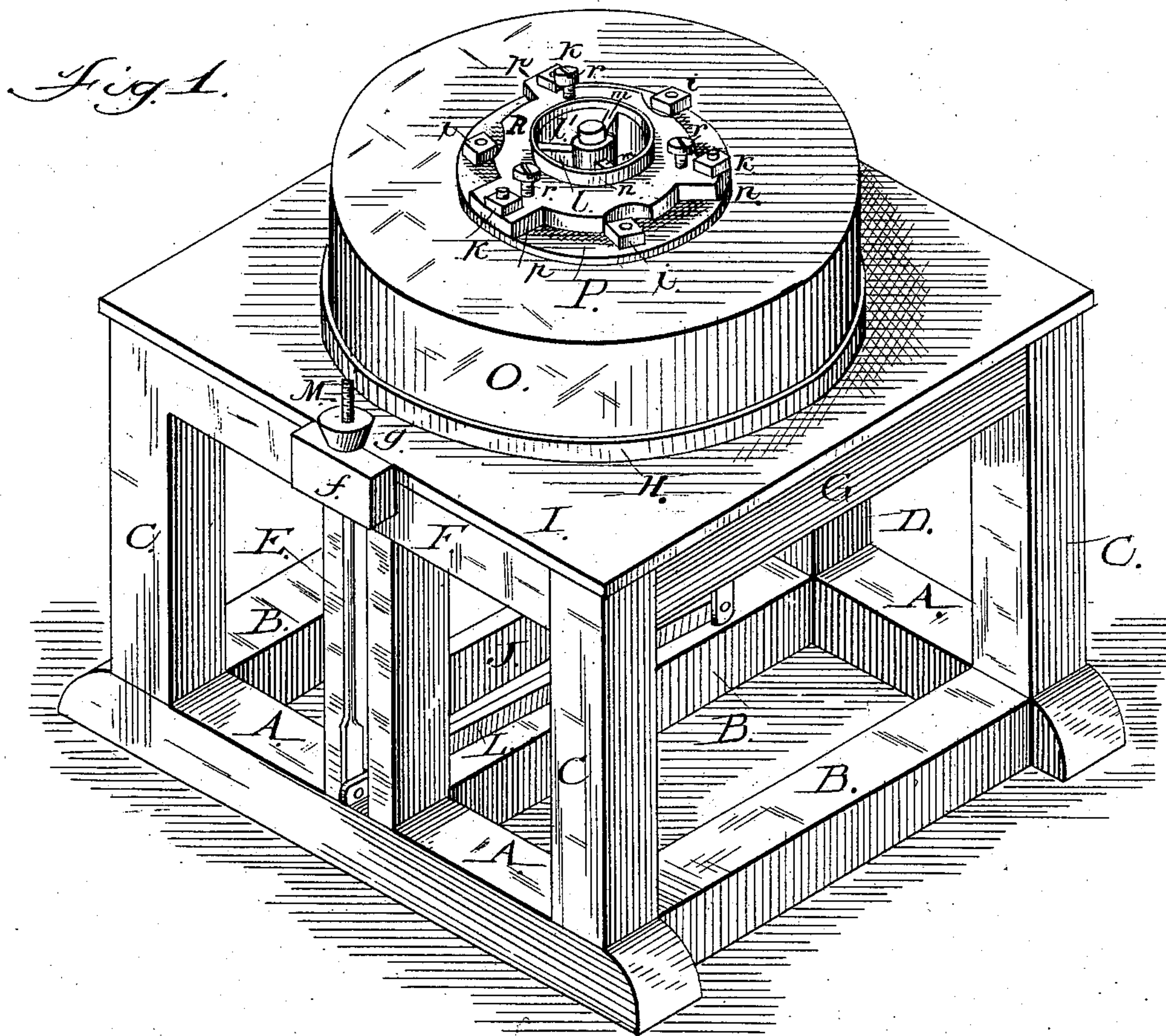
(Model.)

G. H. CORMACK.

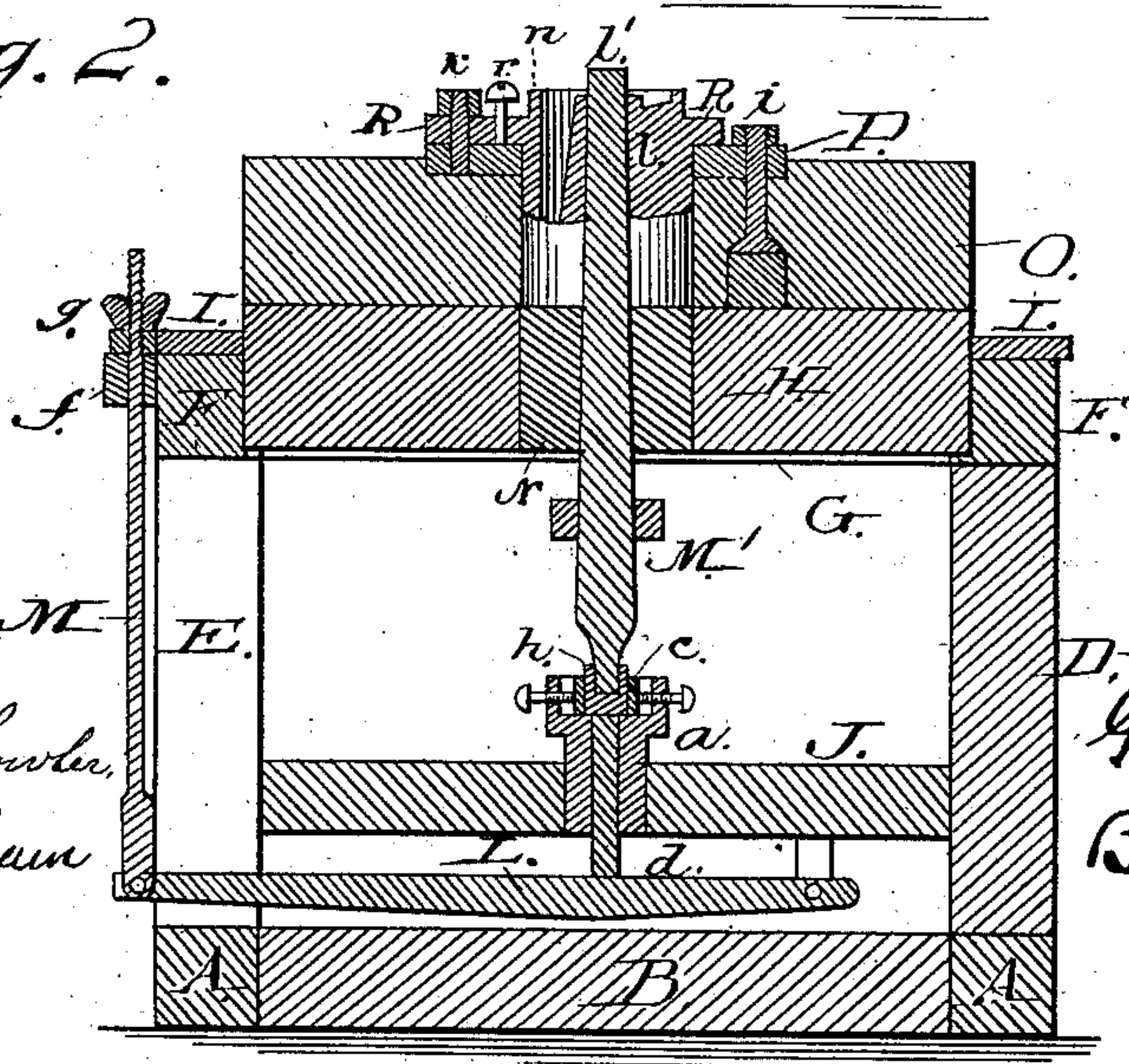
MILLSTONE ADJUSTING MECHANISM.

No. 292,626.

Patented Jan. 29, 1884.



*Fig. 2.*



*Attest; M*  
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# UNITED STATES PATENT OFFICE.

GEORGE H. CORMACK, OF ROCKFORD, ILLINOIS.

## MILLSTONE-ADJUSTING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 292,626, dated January 29, 1884.

Application filed March 6, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, GEORGE H. CORMACK, of the city of Rockford, in the county of Winnebago and State of Illinois, have invented a new and useful Improvement in Millstone-Adjusting Mechanism, of which the following is a specification.

My invention relates to millstones; and it has special reference to the manner of securing and adjusting the spindle and the rynd to the stone, whereby the relative position of the faces of the upper and lower stones is adjusted.

In the accompanying drawings, Figure 1 represents a perspective view of the mill, the stones being mounted upon a suitable frame, and to the upper of said stones are attached my improvements; and Fig. 2, a vertical sectional view of the same.

As represented in the figures in the drawings, I have prepared an open frame-work of cubical outline on which to represent my improvements. This frame is composed of side sills, A, cross-sills B, corner-posts C, a single center side post, D, and a front side center post, E, composed of two parts suitably separated. In this frame is mounted the bed-stone H, and the frame is provided with a floor, I, outside of the stone.

J represents a transverse beam suitably fixed in position on the center posts, and to it is fixed a step-box, a, of cup form. This step-box is provided with a vertical center opening, in which is placed a shaft, d, its lower end resting on the pivoted bridge-tree L. To the outer end of this bridge-tree is pivoted a vertical rod, M, the upper portion of which extends through a suitable support, f, where it is held by a thumb screw-nut, g.

h represents a step-bearing to receive the step end of the spindle M'. By this arrangement it will be seen that the spindle supported in the step may be raised and lowered by means of the adjusting thumb-screw; but these parts form no portion of my claim, and are simply mentioned so as to make the subject of the claim more easily understood. The bed-stone has an opening in the center, which is provided with a bushing, N, in which the

spindle is fitted to revolve. The upper portion, V, of the spindle, above the bed-stone, is tapered in conic form, being smallest at its upper end.

O represents the upper stone or runner, having an open center, as common in millstones, and in its upper face center is fitted a suitable eye-plate, P, provided with a center opening to correspond to the eye of the stone. This plate is firmly bedded in place and fixed in position by means of suitable bolts, i. This plate is also provided with screw-bolts k, which project from its upper face, and are designed to receive the webbing or spider-like arms of a rynd, which supports the stone on the spindle.

l represents a tapered rynd of hollow conic form, fitted to receive the upper tapered portion of the spindle snugly, to produce a close fit. Radial arms m connect this rynd with an outer rim, n, which is of suitable size to freely enter the eye in the eye-plate fixed in the center of the upper face of the stone. From this rim projects horizontally a plate, R, of spider form, to overlap the eye-plate, and having its radial arms p fitted with holes to receive the upward-projecting bolts k, provided with suitable screw-nuts. The radial arms of the spider-plate are fitted with adjusting-screws r, screw-threaded in the radial arms, their ends operating against the upper surface of the eye-plate. These screws, in connection with the screw-bolts projecting upward through the spider-arms, furnish the means by which the runner may be readily adjusted to place it in perfect tram with the spindle on which it is mounted to revolve, which is accomplished by means of the screw action operated for the purpose at the proper point or points.

From the foregoing it will be seen that my improvement is equally applicable to all mills using stones for grinding or hulling purposes, and by means of my improvements I am enabled to perfectly adjust the spindle in the upper stone.

I claim as my invention—

The combination, with a tapered spindle, the tapered portion of which projects above

the face of the bed-stone, of the runner provided with a fixed eye-plate, and the adjustable tapered rynd having an elongated spindle-aperture, projecting radial arms, binding-  
5 screws to secure it to the eye-plate, set-screws which pass through said arms, bear against the eye-plate, and serve to adjust the position of the rynd to the plate, whereby the

faces of the stones are relatively adjusted one to the other, substantially as described.

GEORGE H. CORMACK.

Witnesses:

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