

J. M. Erril

Mill Bush

Nº 77,265.

Patented Apr. 28, 1868.

Fig. 1.

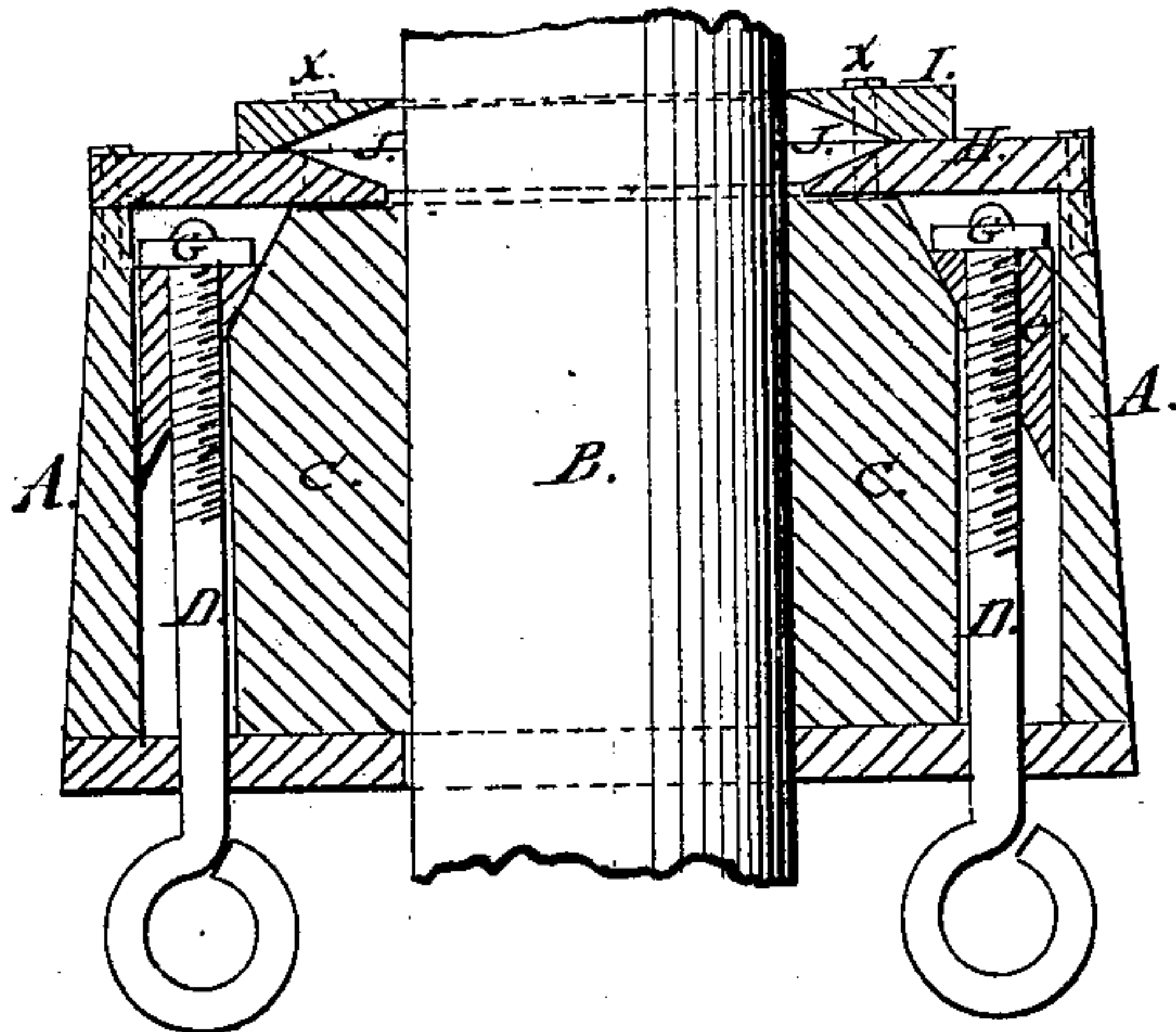


Fig. 2.

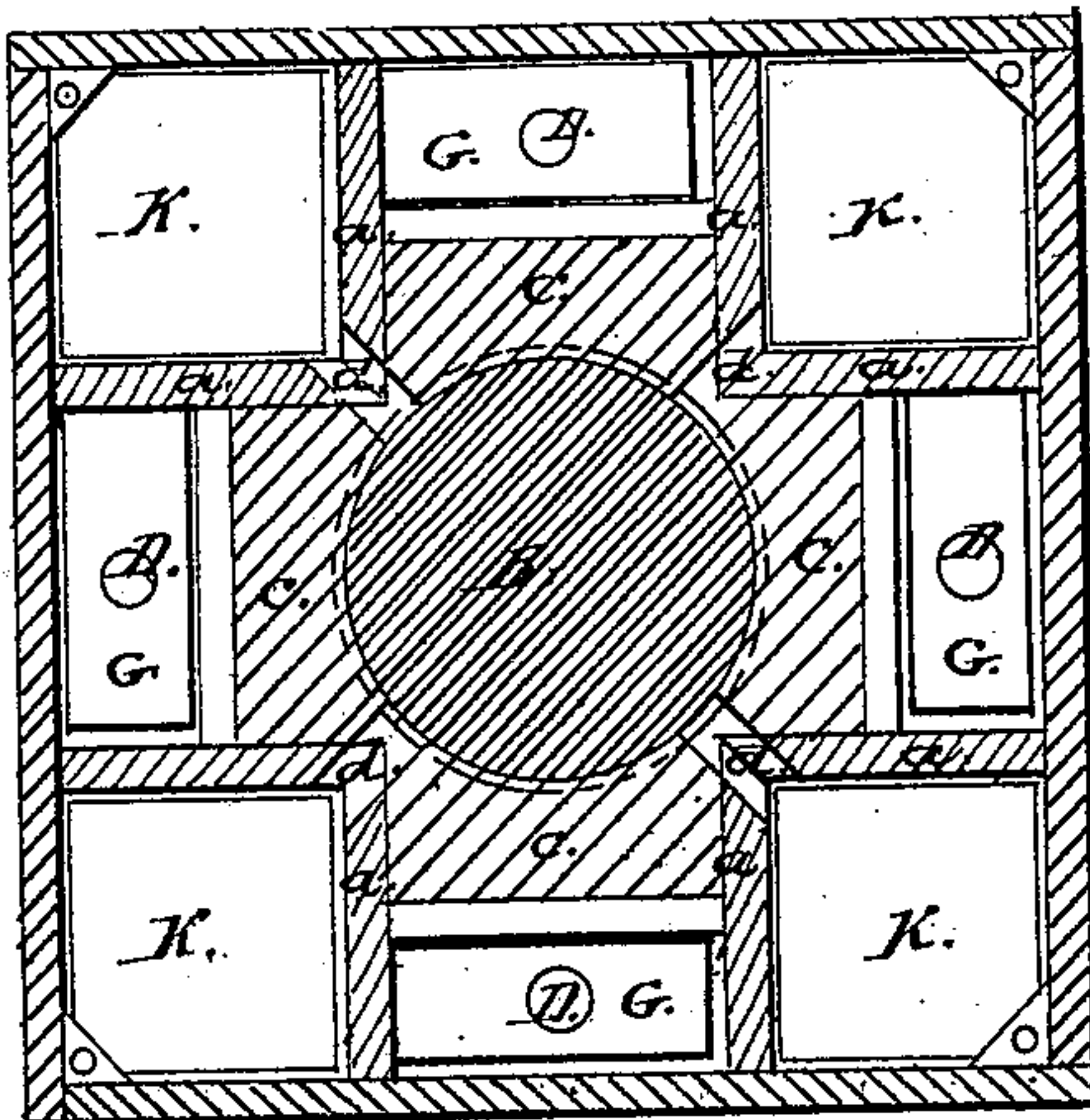
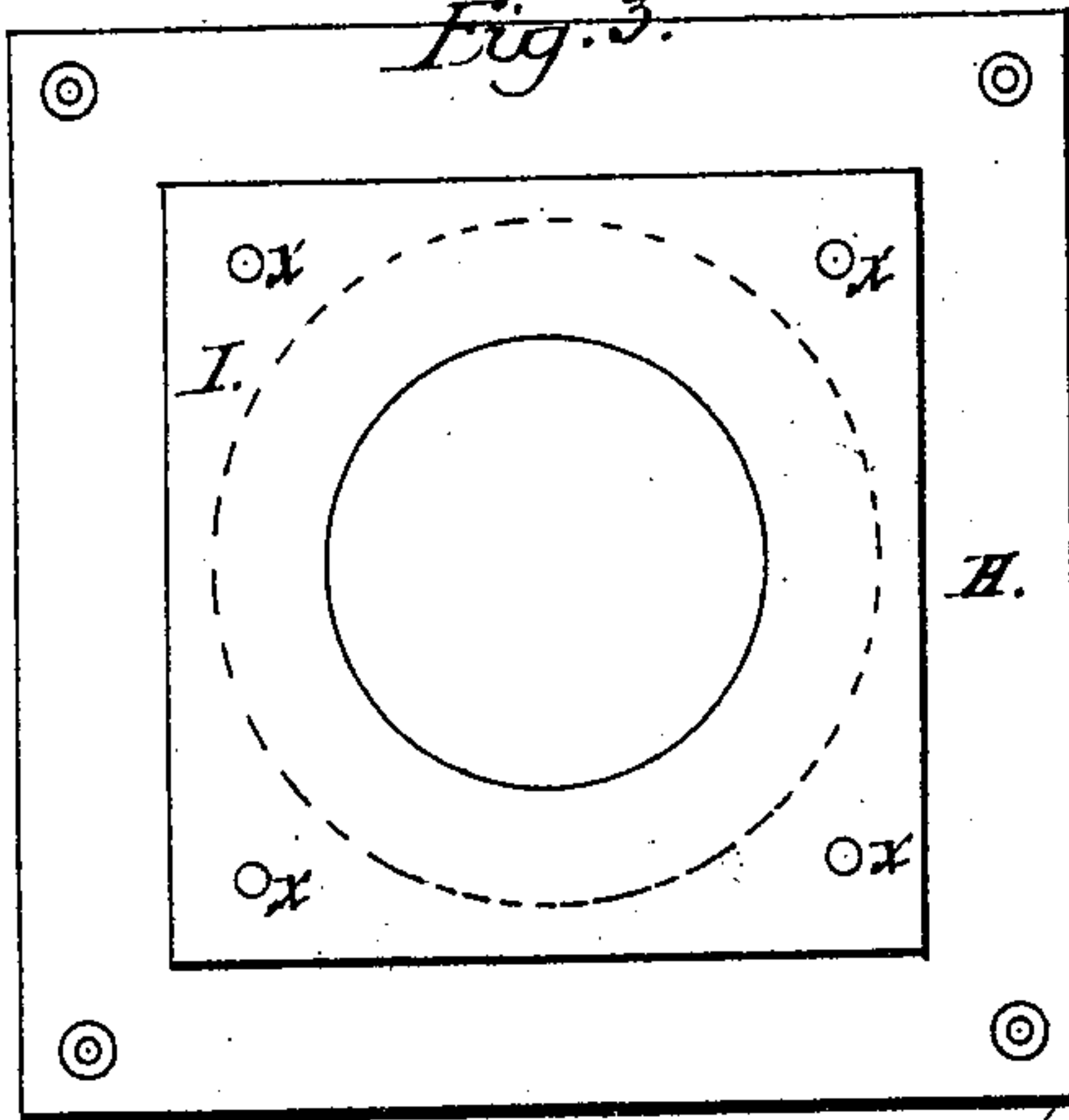


Fig. 3.



Witnesses:

Charles Blue
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Inventor:

John M. Erril
Per
Alexander P. Mason
Attys.

UNITED STATES PATENT OFFICE.

JOHN M. EVRIL, OF CENTRE, PENNSYLVANIA.

IMPROVEMENT IN MILL-BUSHES.

Specification forming part of Letters Patent No. 77,265, dated April 28, 1868.

To all whom it may concern:

Be it known that I, JOHN M. EVRIL, of Centre, in the county of Perry, and in the State of Pennsylvania, have invented certain new and useful Improvements in Mill-Bushes; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, making part of this specification, A represents a square box, made of suitable size and material, and through the center of which the mill-spindle B passes. C C represent the follow-blocks of the bush, which are placed within the box A and around the spindle B. These blocks are four in number, and, being placed on four sides of the spindle, keep it in a central position. *a a* represent partitions in the box, which are so placed as to form four chambers of equal dimensions in the four corners of the box A. A portion of the miter is cut away in the inner corners of these chambers, so as to form slots *d d*, which communicate with the spindle B. These chambers are designed to contain raw cotton or other suitable material, which is saturated with lubricating-oil. When the spindle warms up by friction the oil softens up and supplies the spindle. The follow-blocks C C have triangular pieces cut from their back sides, reaching from their upper ends to about their centers. The spaces thus formed are filled with the wedge-shaped or triangular blocks *e e*. D D represent four rods of metal, which have threads cut upon their upper ends. These rods pass up through the bottom of the box A, through slots in the back sides of the follow-blocks C, and then through holes in the blocks *e e*, their upper ends striking the under

side of the box-cover H. G G represent metallic nuts, which lie upon the blocks *e e*, and through which the rods D pass, said nuts having screw-threads in them to correspond with the threads on the rods. The object of this arrangement is to force up the follow-blocks against the spindle when they wear away. By turning the rod or bolt D the blocks *e e* are drawn down like wedges behind the follow-blocks to force them up. I represents a collar, which surrounds the spindle B, and which is confined down to the cover H by suitable screws at *x x*. This collar has its under edge around the spindle beveled off to correspond with a similar bevel on the upper edge of the cover H about the spindle, so as to form a V-shaped recess, flaring toward the spindle, for holding packing. When the spindle is packed and the collar I is forced down, the packing is made by this device to fit snugly around the spindle, and thus prevent dust from entering the bush.

When it is desired to supply the cotton or other material in the chambers K with oil, the screws *x x*, are removed and oil is poured into the chambers through their holes.

Having thus fully described my invention, what I claim is—

The box A, provided with groove J, chambers K, blocks C, wedges *e*, and bolts D, all arranged, combined, and used substantially as and for the purposes specified.

In testimony that I claim the foregoing I have hereunto set my hand this 27th day of December, 1867.

J. M. EVRIL.

Witnesses:

C. M. ALEXANDER,
J. M. MASON.