

(No Model.)

D. A. BELLOWS.

MILLSTONE BUSH.

No. 335,418.

Patented Feb. 2, 1886.

Fig. 1.

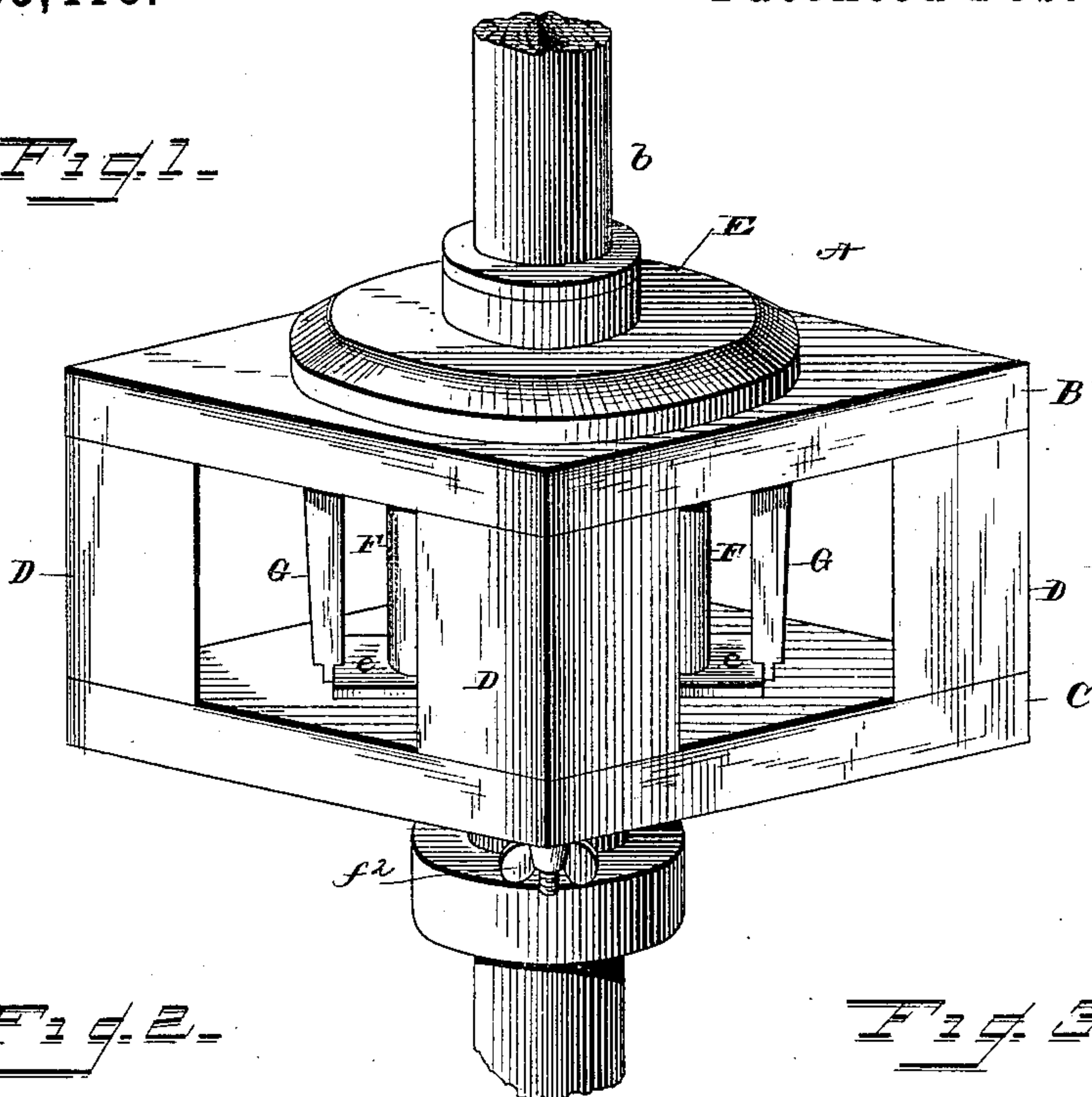


Fig. 2.

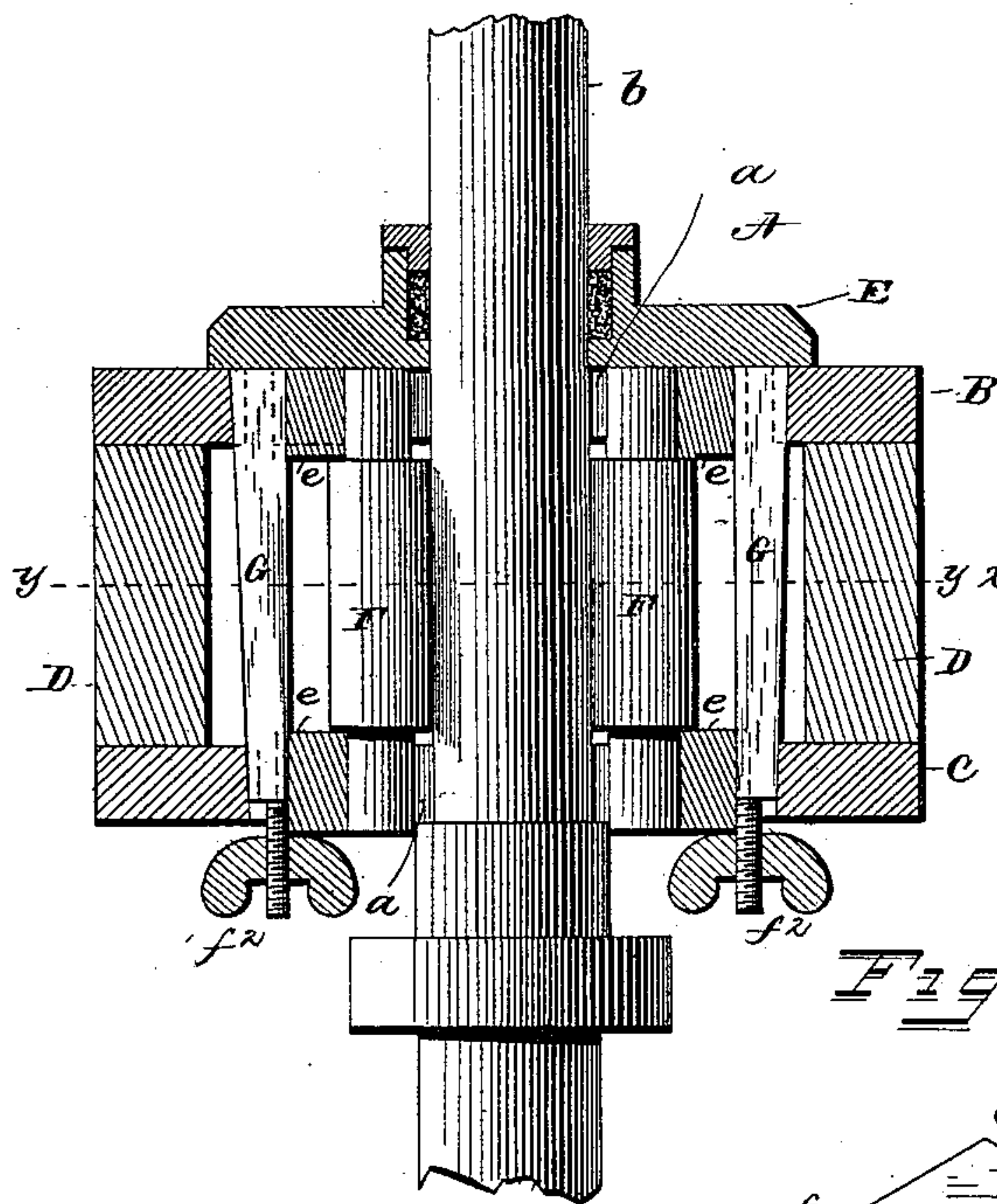


Fig. 3.

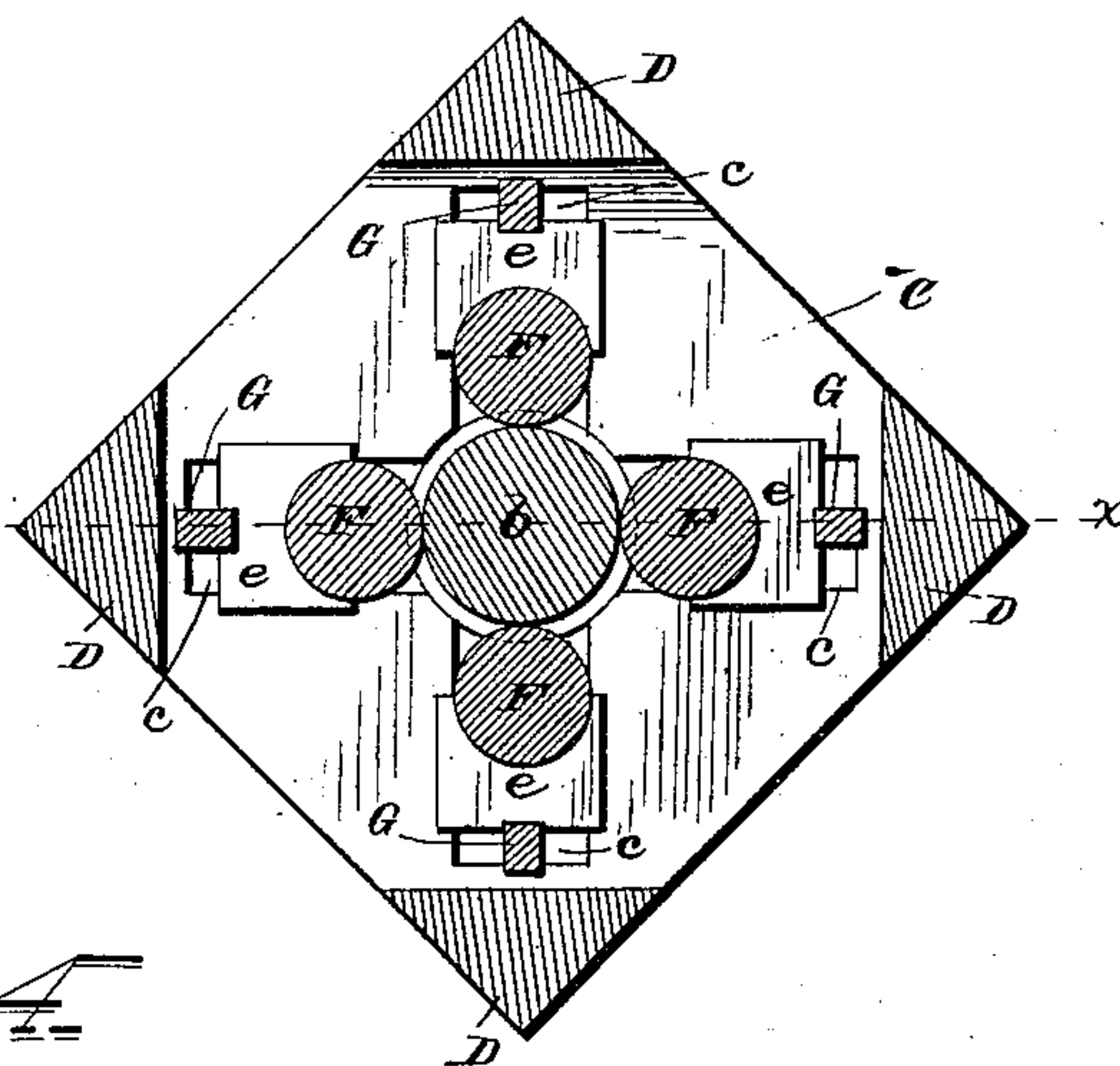
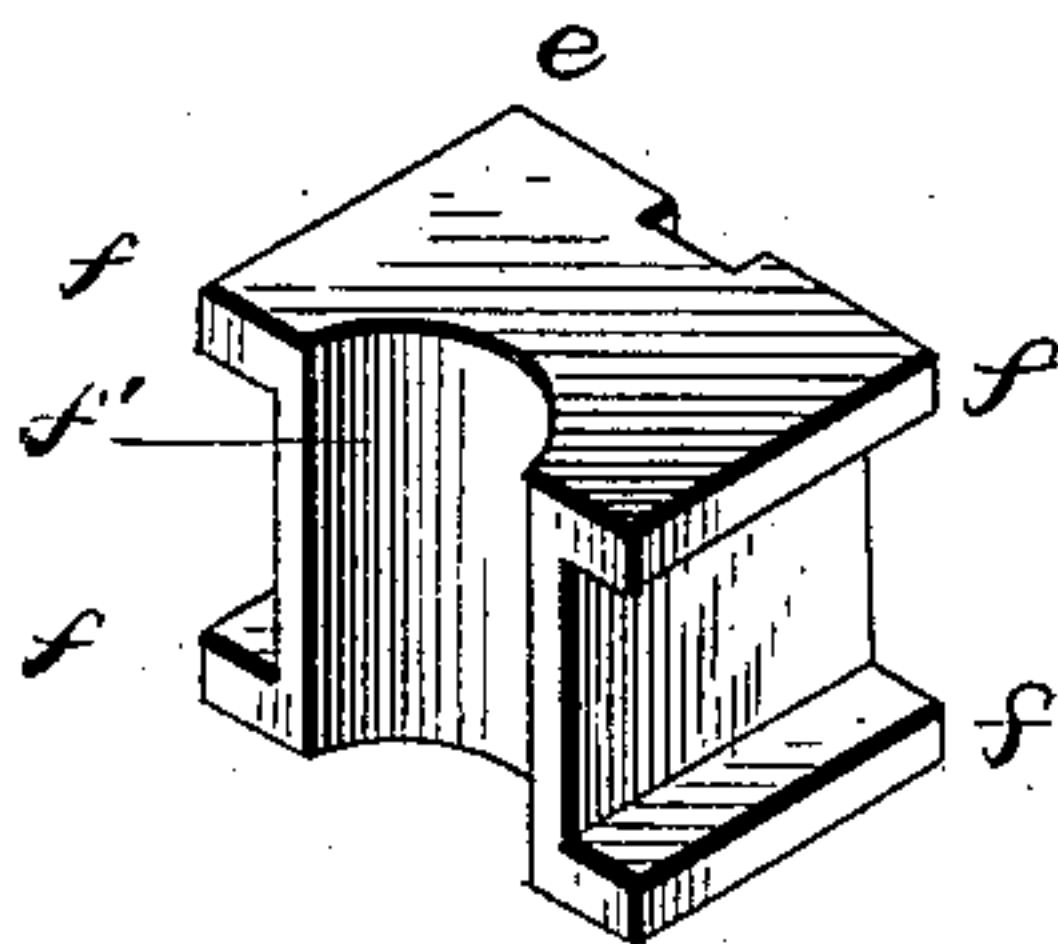


Fig. 4.



WITNESSES
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MILLSTONE-BUSH.

SPECIFICATION forming part of Letters Patent No. 335,418, dated February 2, 1886.

Application filed July 16, 1885. Serial No. 171,761. (No model.)

To all whom it may concern:

Be it known that I, DANIEL A. BELLOWS, a citizen of the United States, residing at Mulberry, in the county of Jackson and State of Georgia, have invented certain new and useful Improvements in Millstone-Bushes; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to
10 which it appertains to make and use the same.

My invention relates to bushes for millstone-spindles, and has for its object to provide a device of this character which shall be simple
15 in its construction, strong and durable, and not likely to get out of order, and one whereby the friction will be reduced to a minimum.

With these ends in view the invention consists in the improved construction and combinations of parts hereinafter fully described,
20 and pointed out in the claim.

In the drawings, Figure 1 is a perspective view of my invention. Fig. 2 is a vertical section. Fig. 3 is a horizontal section. Fig.
25 4 is a detail perspective view of one of the bearing-blocks.

In the accompanying drawings, in which like letters of reference indicate corresponding parts in all the figures, A represents a
30 frame composed of the top and bottom plates, B C, connected at their corners by vertically-arranged posts D, which support the top and bottom plates in position and brace and strengthen the same. The top and bottom
35 plates, B C, are provided with central openings, *a*, for the passage of the spindle *b*, and secured to the upper side of the upper plate, B, is a plate, E, having a stuffing box to exclude dust from the spindle, the upper end of the spin-
40 dle passing through an opening in said plate E.

F represents a series of vertically-disposed rollers, which bear against the spindle. The ends of these rollers are reduced, and have bearing in slots or openings *c*, in which slots

or openings are located bearing-blocks *e*, which
45 are somewhat smaller than the openings in the top and bottom plates. These bearing-blocks are provided with outwardly-extending top and bottom flanges *f*, which bear against the
50 upper and under sides of said plates B C adjacent to the openings therein, thus preventing the vertical movement of said blocks, but allowing them to be moved to or from the spin-
dle, said blocks having semicircular recesses
55 *f'* on their inner sides to receive the reduced ends of the rollers.

G represents keys, which are wedge-shaped in form, their upper ends fitting in the openings of the top plate behind the bearing-blocks. The lower ends of these keys are threaded and
60 pass through the openings of the lower plate, bearing against the outer sides of the bearing-blocks. Engaging the threaded lower ends of the keys are thumb-nuts *f''*, by tightening
65 which the bearing-blocks are caused to move toward the spindle from the fact that said keys are wedge-shaped.

The bush before described is simple in its construction, strong and durable, prevents undue friction, and affords a firm bearing for the
70 spindle.

I claim and desire to secure by Letters Patent—

In a millstone-bush, the combination, with a frame and the spindle C, journaled therein,
75 of the rollers journaled in the frame and bearing against the spindle, said rollers having reduced ends, the adjusting-blocks having flanges *f*, wedges bearing against the outer sides of the blocks, and nuts to engage the threaded
80 ends of the wedges, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

DANIEL A. BELLOWS.

Witnesses:

JAMES B. SILMAN,
LEWIS Y. BRADBURY.