

(No Model.)

J. M. MONTGOMERY, Jr.

WOOD WORKING VISE.

No. 251,623.

Patented Dec. 27, 1881.

Fig. 1.

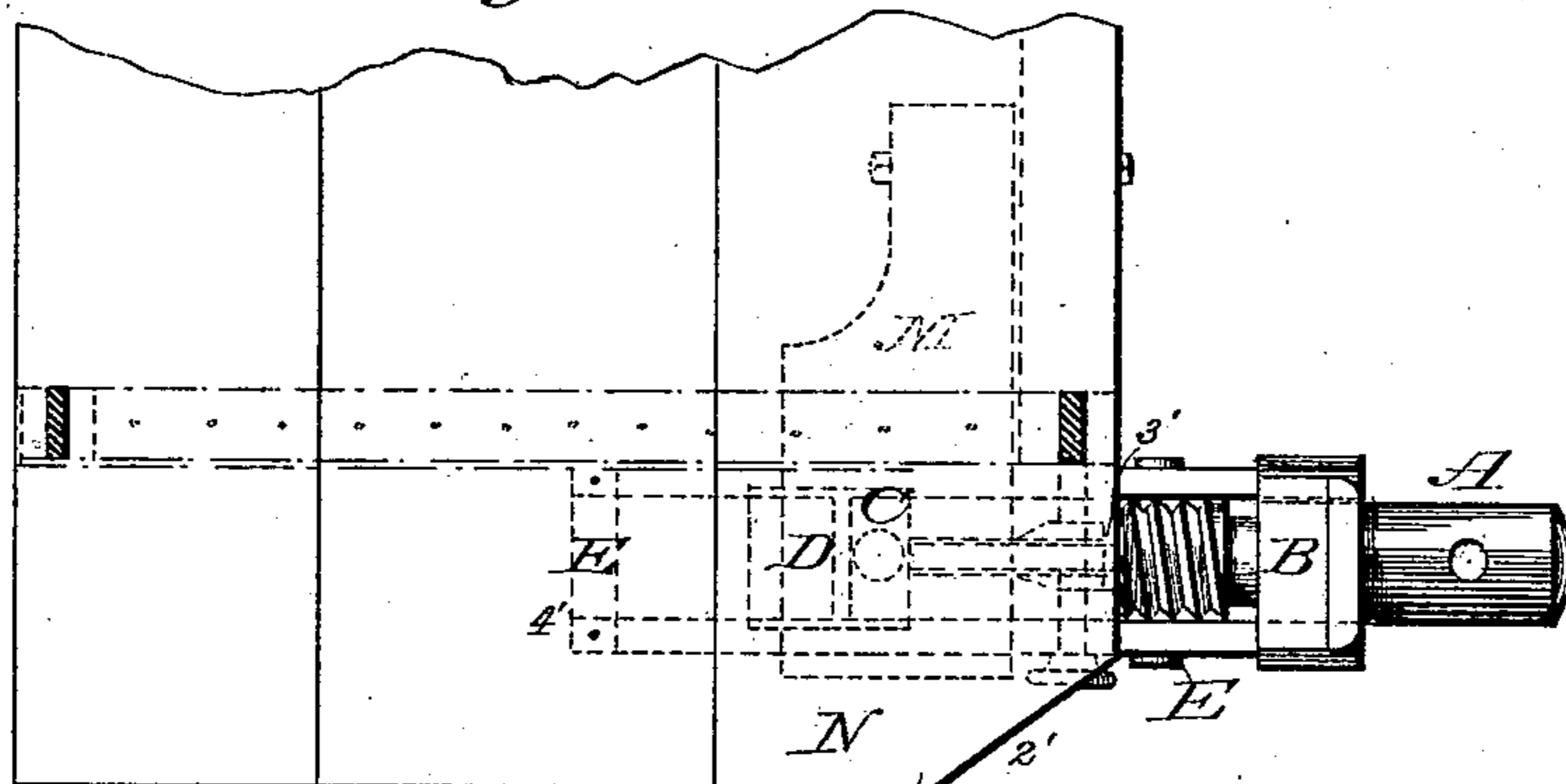


Fig. 4.

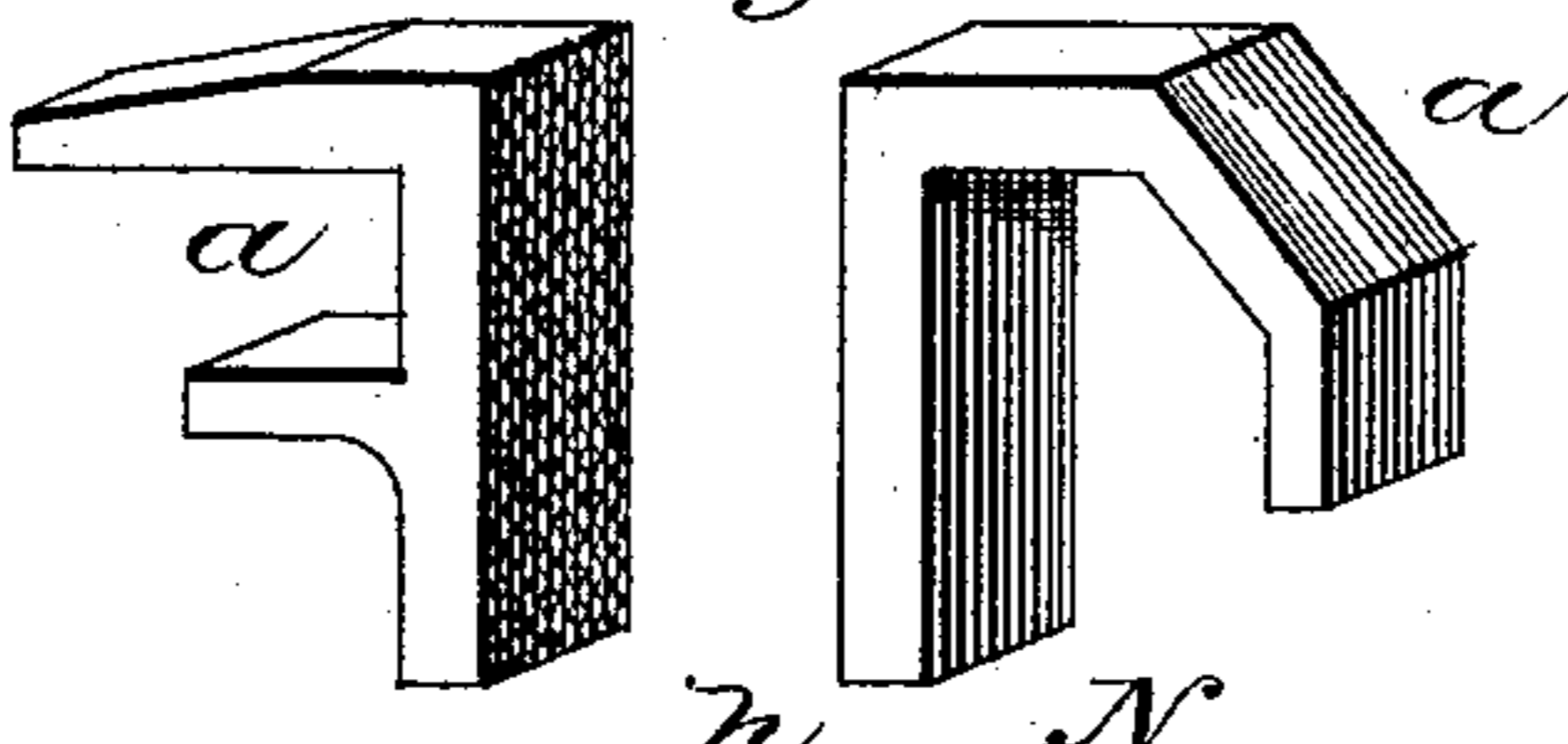


Fig. 8.

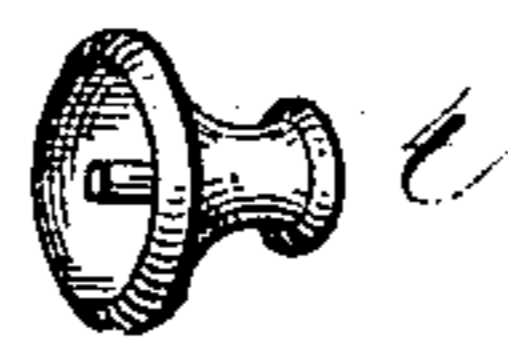


Fig. 5.

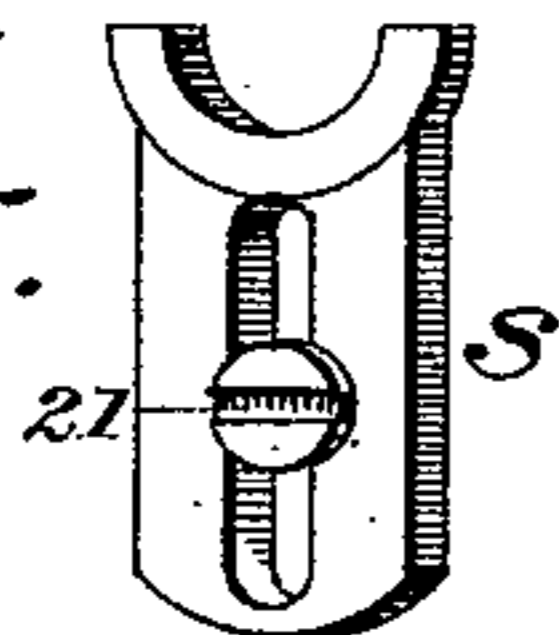


Fig. 2.

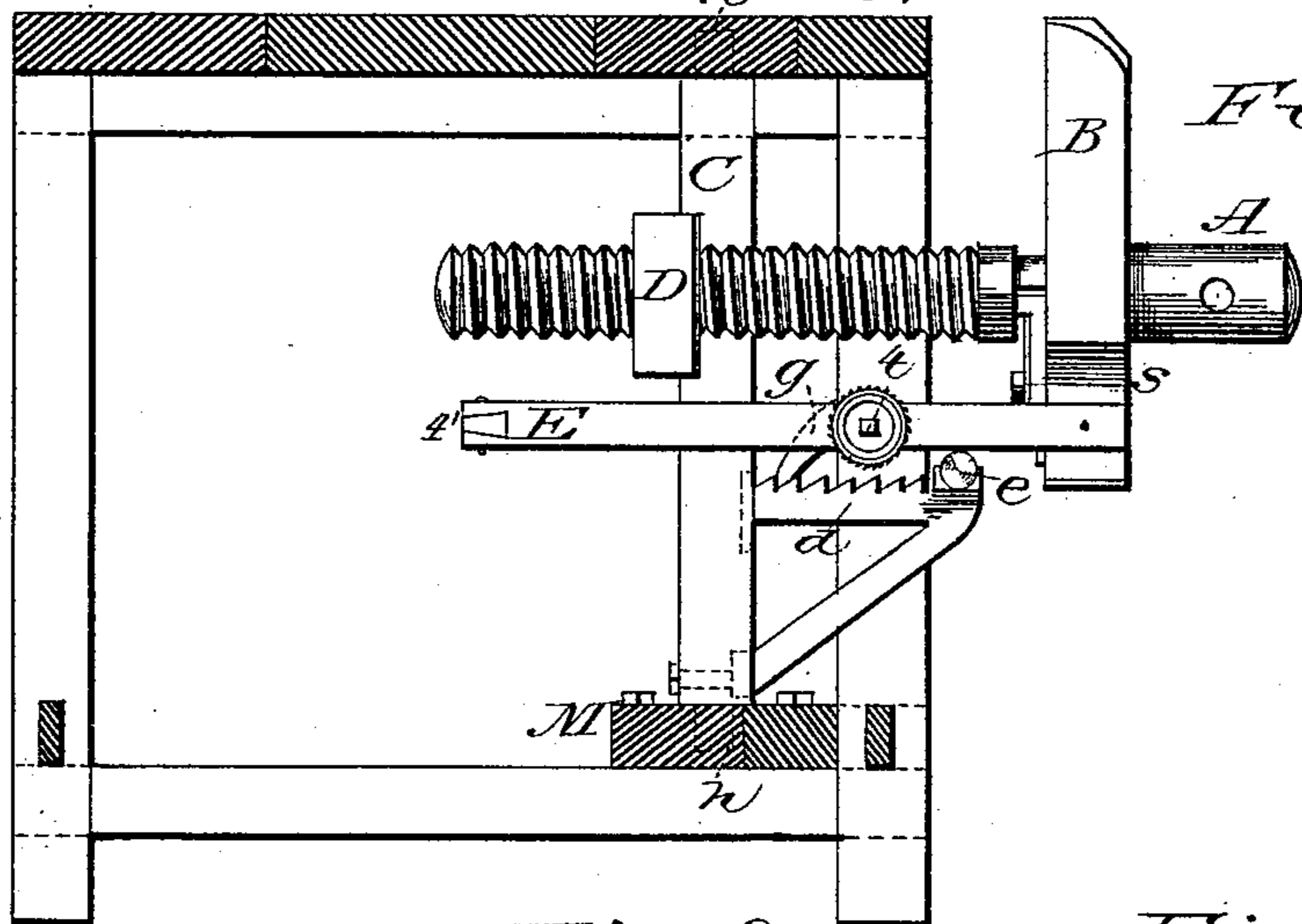


Fig. 3.

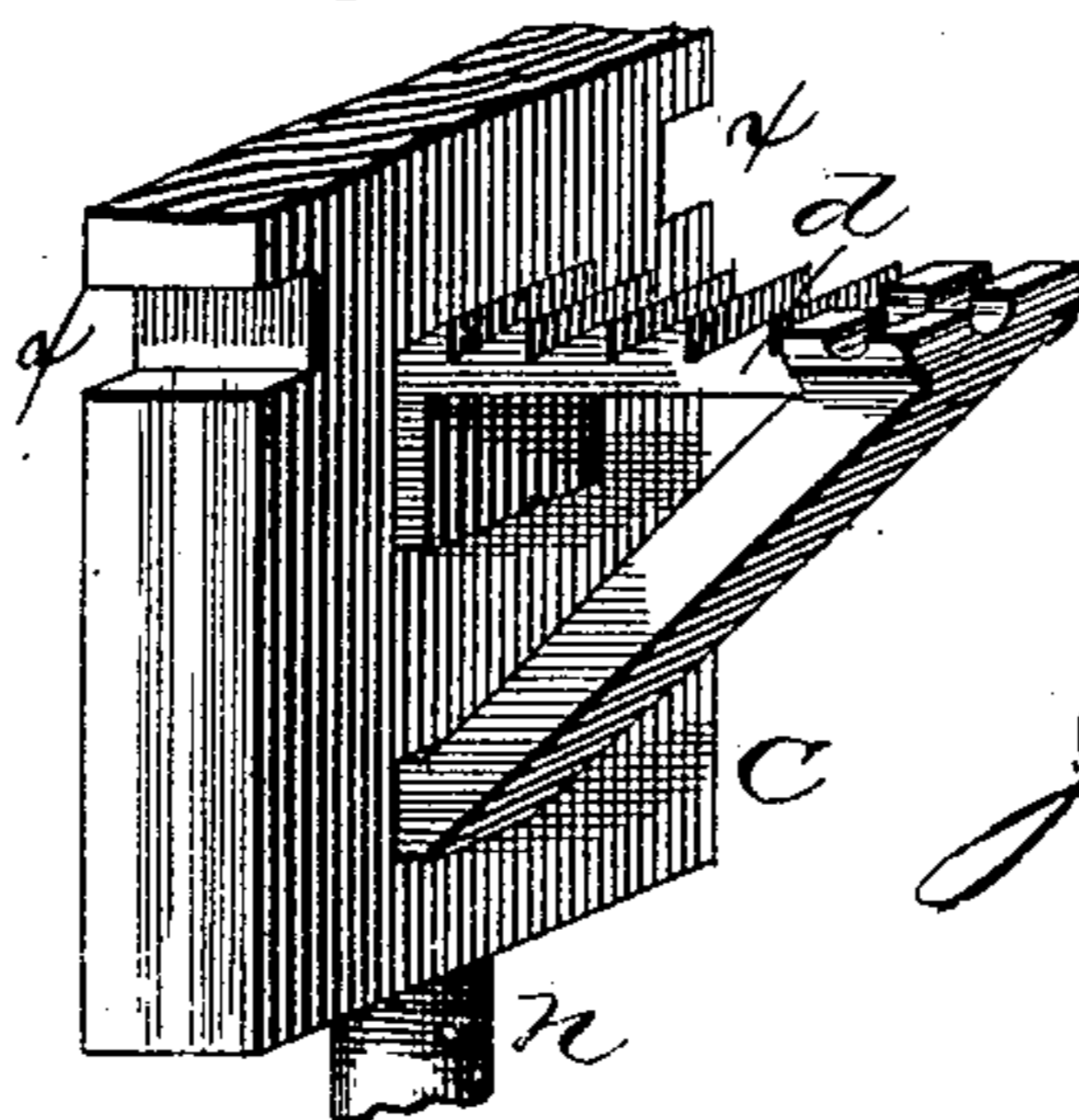


Fig. 7.

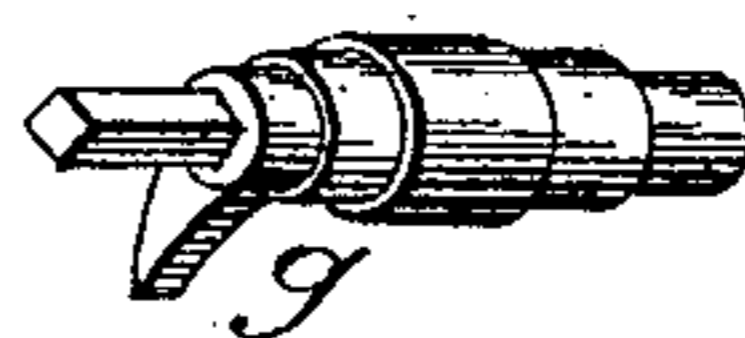
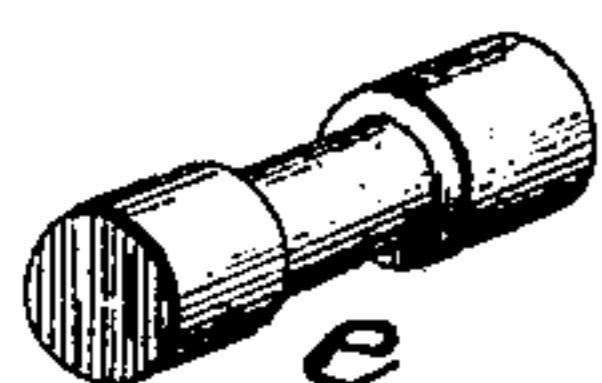


Fig. 6.



Witnesses:
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UNITED STATES PATENT OFFICE.

JAMES M. MONTGOMERY, JR., OF COLUMBUS, OHIO.

WOOD-WORKING VISE.

SPECIFICATION forming part of Letters Patent No. 251,623, dated December 27, 1881.

Application filed October 6, 1880. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. MONTGOMERY, Jr., of the city of Columbus, in the county of Franklin and State of Ohio, have invented
5 a new and useful Improvement in Wood-Working Vises; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and
10 in which—

Figure 1 is a top plan view; Fig. 2, an end elevation, and Figs. 3, 4, 5, 6, 7, and 8 detail views.

My invention relates to bench-vises; and the
15 novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth, and specifically pointed out in the claim.

Referring to the drawings, N represents the
20 bench, having faces 1' 2' 3' arranged at proper and desired angles with each other, the outer two, 1' 3', being at right angles with each other. These faces serve as the inner jaws of the vise in practice, the outer jaw, B, operated by the
25 screw A, acting in connection therewith to form the clamping device.

C represents the post pivoted above and below in the bench at *n*, and D a female-threaded block in which the screw A operates.

30 E represents the frame which supports the jaw B, and it reciprocates in slots or recesses *x x* in the post C, which has a ratcheted elbow-

arm, *d*, as shown, in which operates a pawl, *g*, pivoted to the frame E, which runs on a friction-roller, *e*, journaled in the arm *d*.

S represents the slotted throat-piece which
35 supports the screw, and is held removably secured in place by a set-screw, 21.

It will be observed that the three faces 1' 2' 3', although part of the bench, serve as the inner
40 jaws of the vise, and the angles assist the workman in approximating these angles in his work.

The post C, pivoted above and below, gives a steady bearing to the screw A, and the recesses *x x* afford efficient guides in which the
45 frame E is moved. Said frame E rides on a friction-roll, *e*, which is journaled in the ratcheted bracket *d*.

What I claim as new is—

50 The swinging post C, journaled above and below, as shown, and having the side recesses, *x x*, the elbow-frame, having ratchets *d* and journal-bearings for a friction-roll, *e*, secured thereto, the sliding frame E, pawl *g*, screw A, 55 and outer jaw, B, combined with a bench having three faces, 1' 2' 3', arranged at proper angles to each other, as shown, and adapted to serve as the inner jaw of the device in three positions, as set forth.

JAMES M. MONTGOMERY, JR.

Witnesses:

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HANNAH E. TOMPKINS.