

(No Model.)

J. F. COXHEAD.

SAW SETTING VISE.

No. 358,842.

Patented Mar. 8, 1887.

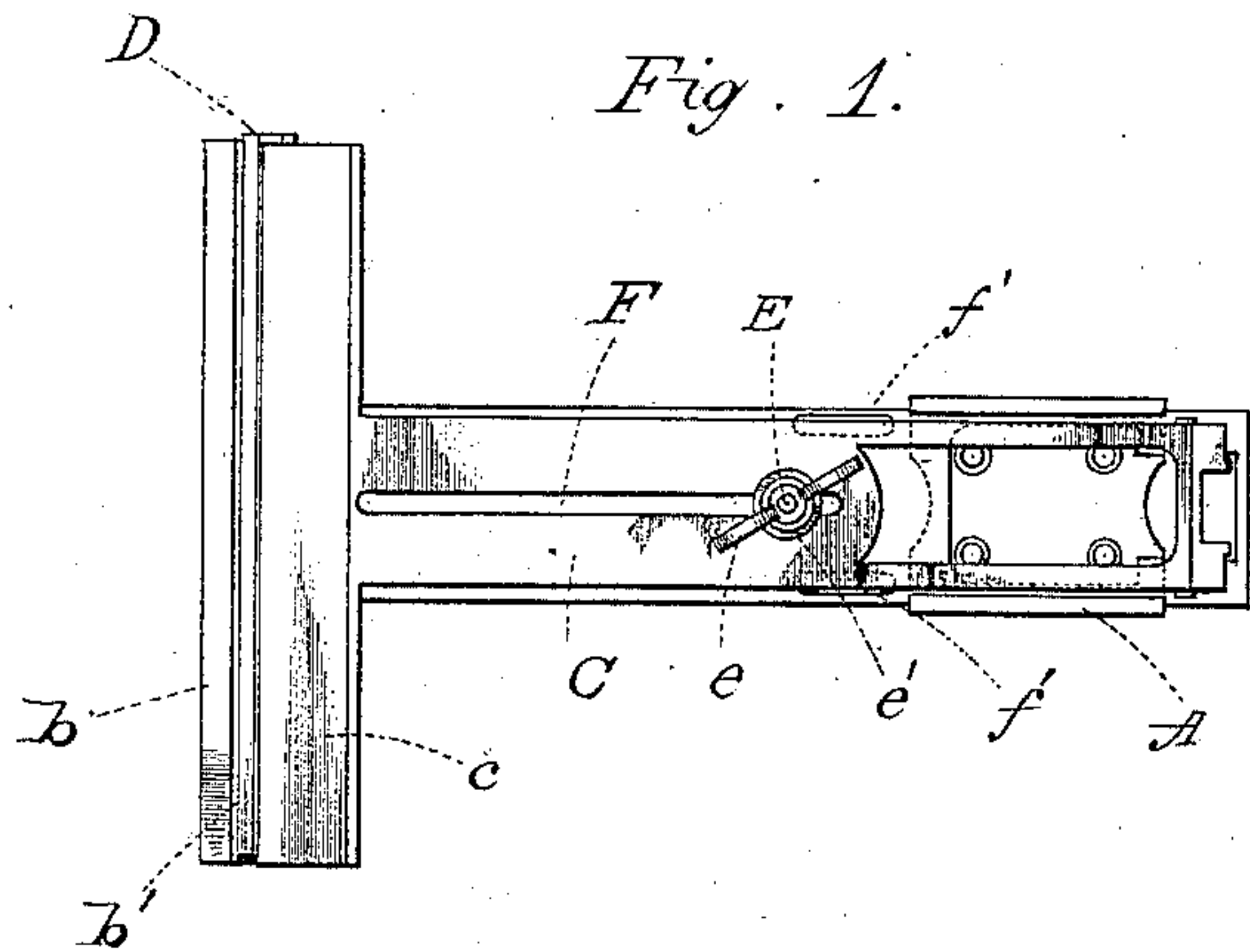


Fig. 1.

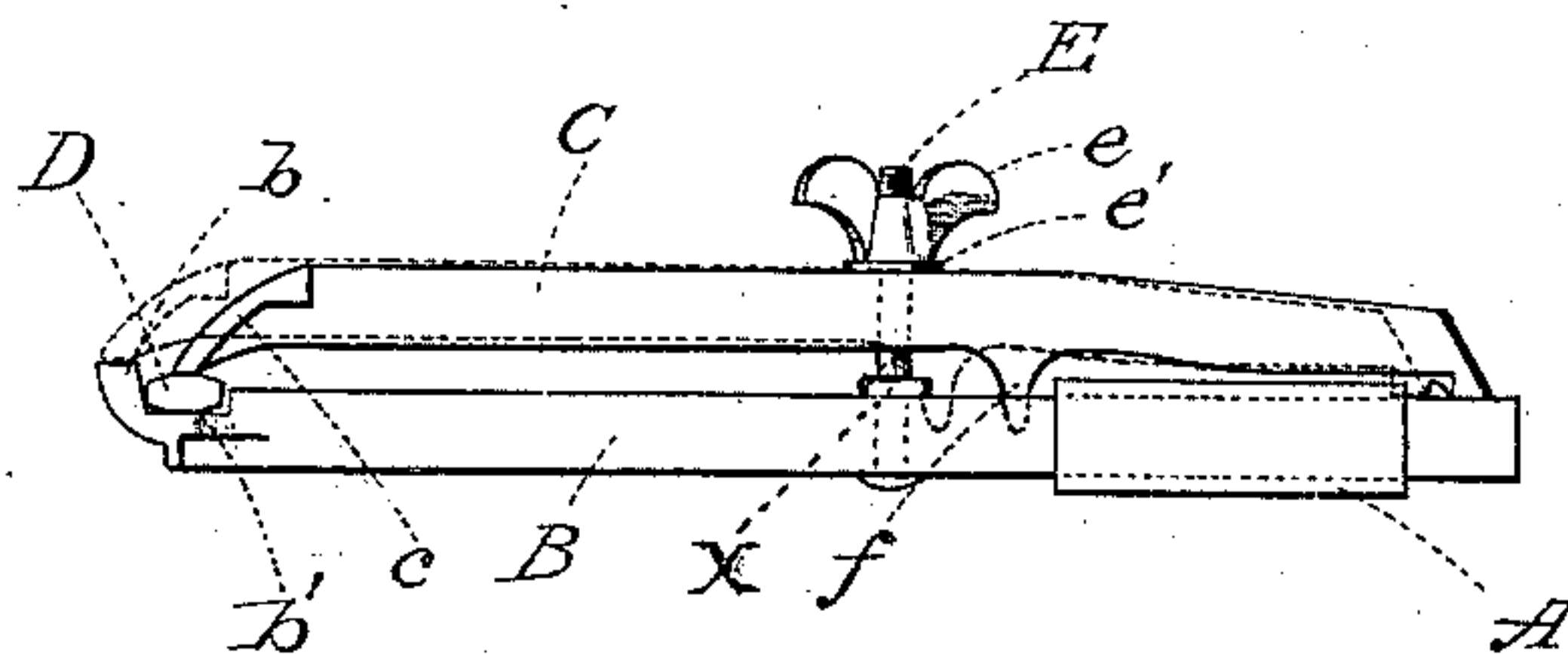


Fig. 2.

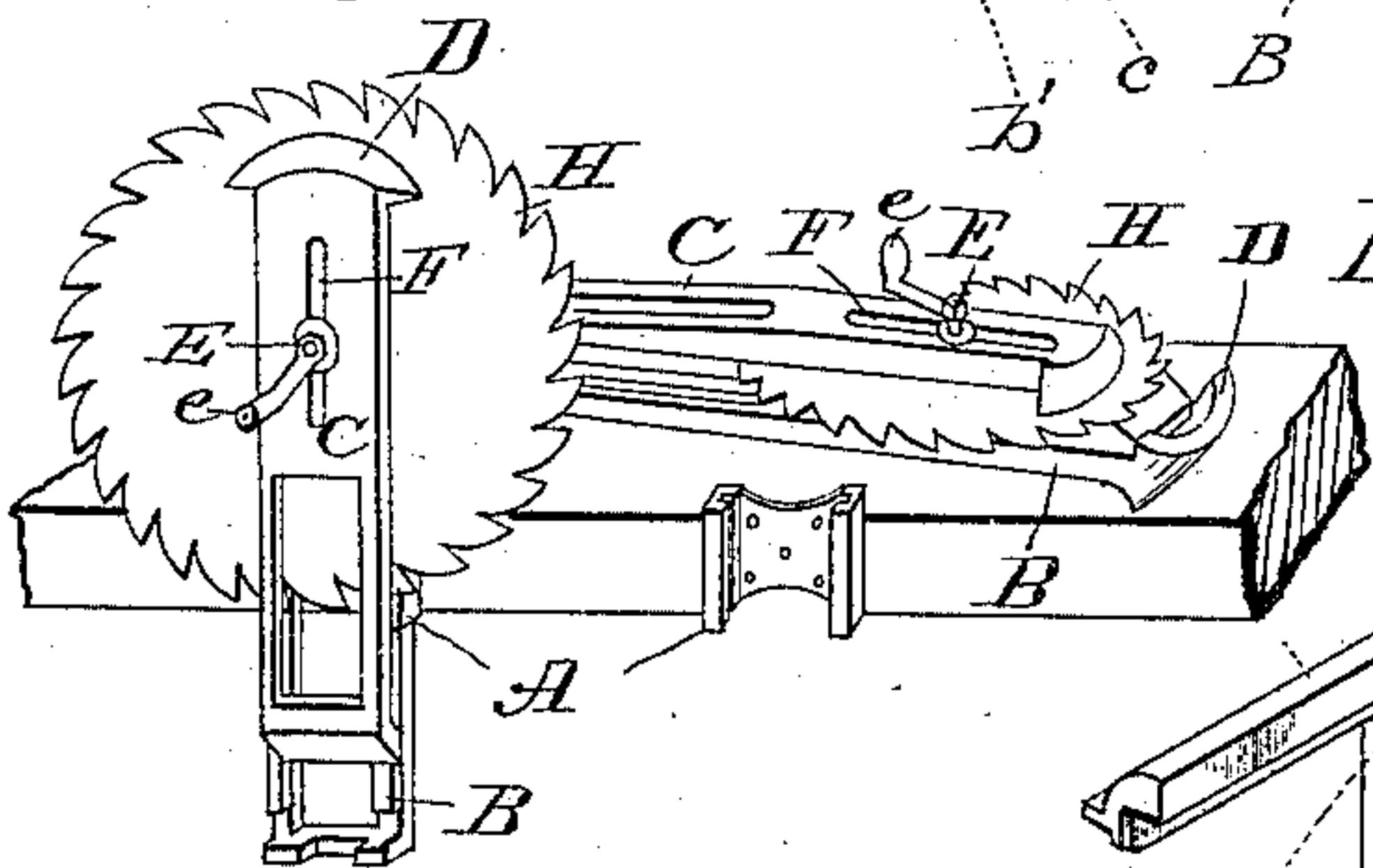


Fig. 3.

Fig. 5.

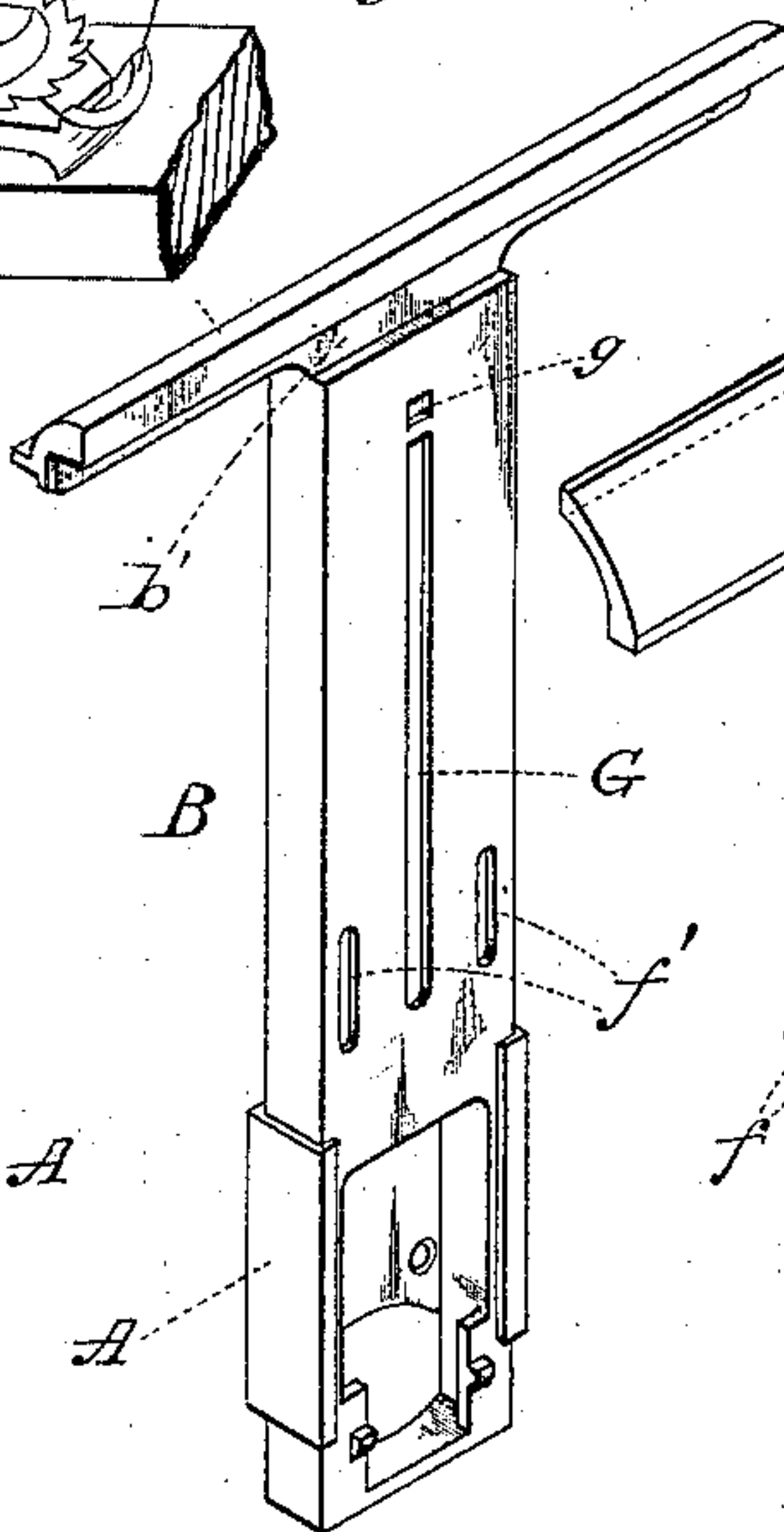
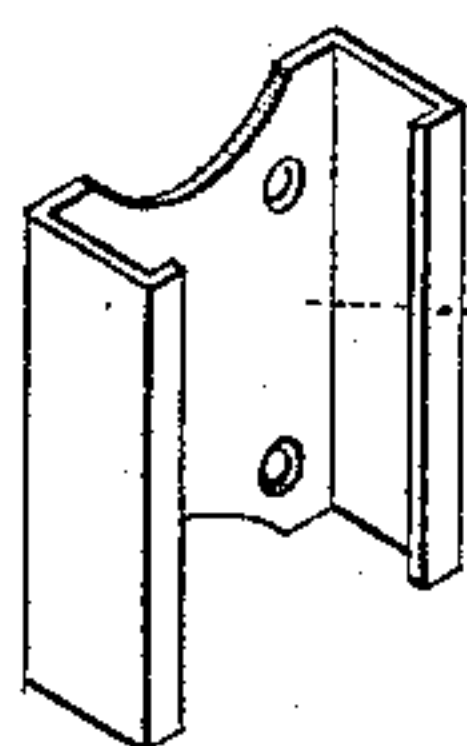


Fig. 4.

John F. Coxhead
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Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN F. COXHEAD, OF POUGHKEEPSIE, NEW YORK.

SAW-SETTING VISE.

SPECIFICATION forming part of Letters Patent No. 358,842, dated March 8, 1887.

Application filed April 24, 1886. Serial No. 200,113. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. COXHEAD, of Poughkeepsie, county of Dutchess, and State of New York, have invented an Improvement in Vises and Combined Saw-Set and Vise; and I do hereby declare that the following is a full and clear description of the same.

I have heretofore invented a combined saw-set and vise and obtained a patent therefor, No. 261,687, dated July 25, 1882. I have made improvements in the construction thereof, making the instrument simpler and more perfectly adjustable to saws of all kinds, and an improvement in all vises. I also adapt my saw-set and vise combined to circular saws.

My invention and improvements will more fully appear in the accompanying drawings, in which—

Figure 1 shows a plan view of my combined saw-set and vise. Fig. 2 shows a side view of the same, showing a circular jaw and vise. Fig. 3 shows the back frame. Fig. 4 shows the front frame. Fig. 5 shows the socket or sliding cleat. Fig. 6 shows the rounded jaws of my vise and saw-set combined, adapting it to the circular saw for both filing and setting.

A shows the socket or sliding cleat.

B shows the back frame.

C shows the front frame, and D the steel anvil with beveled edges for setting, and E shows the bolt for tightening the jaws, which bolt slides up and down in the slots F and G.

e shows the thumb-screw or levered nut working on the bolt to tighten the jaws, and x shows a nut working on the bolt in proximity to the rear frame, holding, when tightened, said bolt firmly to the back frame in any desired position.

f shows projections on the front frame, for the purpose of guiding it when raised or lowered, which work in the slots f' in the back frame of the vise and saw-set. c shows the front jaw. b shows the back jaw.

In my former patent I used a bolster to hold the back of the saw; but in my improved saw-set and vise I introduce as new and an improvement the slots F and G, opposite each other in the frames, and use a bolt, E, sliding in the slots up and down nearly the whole length of the frames. This bolt has a head on the rear end, and also a nut, x, working on a

thread on the bolt. This nut is very useful in filing or setting a circular saw, because it enables the operator to hold the bolt firmly to the rear jaw while the nut or wrench-screw e is loosened, so as to turn the circular saw on the bolt as its axis. This nut is not used, except in filing and setting a circular saw, or in filing and setting a saw of uniform width, and, also, except the simple vise, where it is most useful. This bolt is placed in filing and setting an ordinary saw high enough, so that the back of the saw rests upon it.

In my former patent I used lever-power, working generally, on the short arm to tighten the jaws, or a bolt fastened to the front jaw and moving in a short perpendicular slot in the back jaw or frame, to afford sufficient dropping of the front jaw for setting purposes, and I find my new construction far better.

I do not deem it necessary to enter into a minute detail of the action of the parts in my former patent, but confine myself to what is new and an improvement. What I claim, also, as especially new is the adaptation of my vise and saw-set to circular saws.

I place the circular saw on the bolt as an axle to it, and then bring the bolt so that the teeth of the saw are in the right position for either setting or filing. I fasten the nut x to the back frame by turning it close with a wrench, and the saw can revolve upon this bolt as its axis, and I can loosen the front jaw or tighten it without permitting the bolts to move in the back frame.

It will be seen that the nut x can be used on any vise in combination with the frame and bolts to excellent advantage.

Having thus described my invention, what I claim, and desire to obtain Letters Patent for, is—

In a vise, the combination of the front and back jaw-carrying frames, slotted at F, G, and f', the former having the lugs f, of the socket-piece A, bolt E, nut e, tightening-nut x, and the beveled anvil D, substantially as shown and described, and for the purpose set forth.

JOHN F. COXHEAD.

Witnesses:

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