

(No Model.)

M. MARSHALL & H. J. McDEVITT.

SAW SET.

No. 250,932.

Patented Dec. 13, 1881.

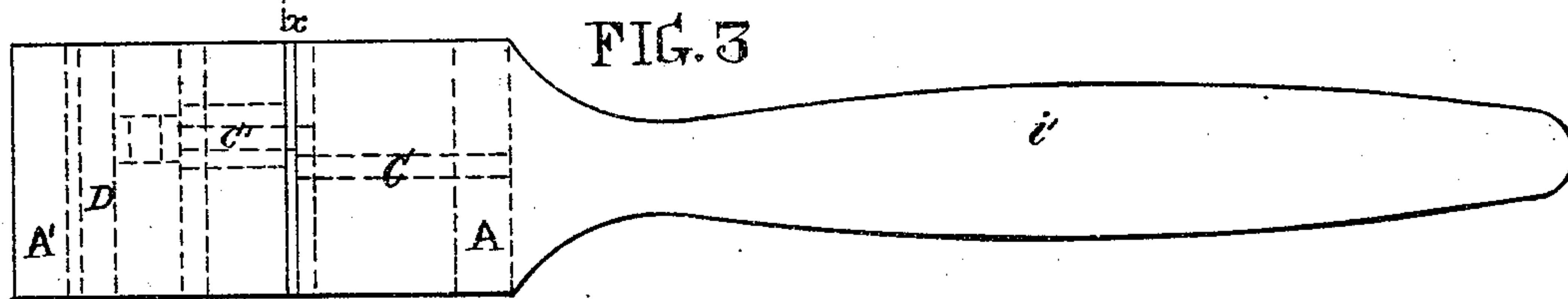
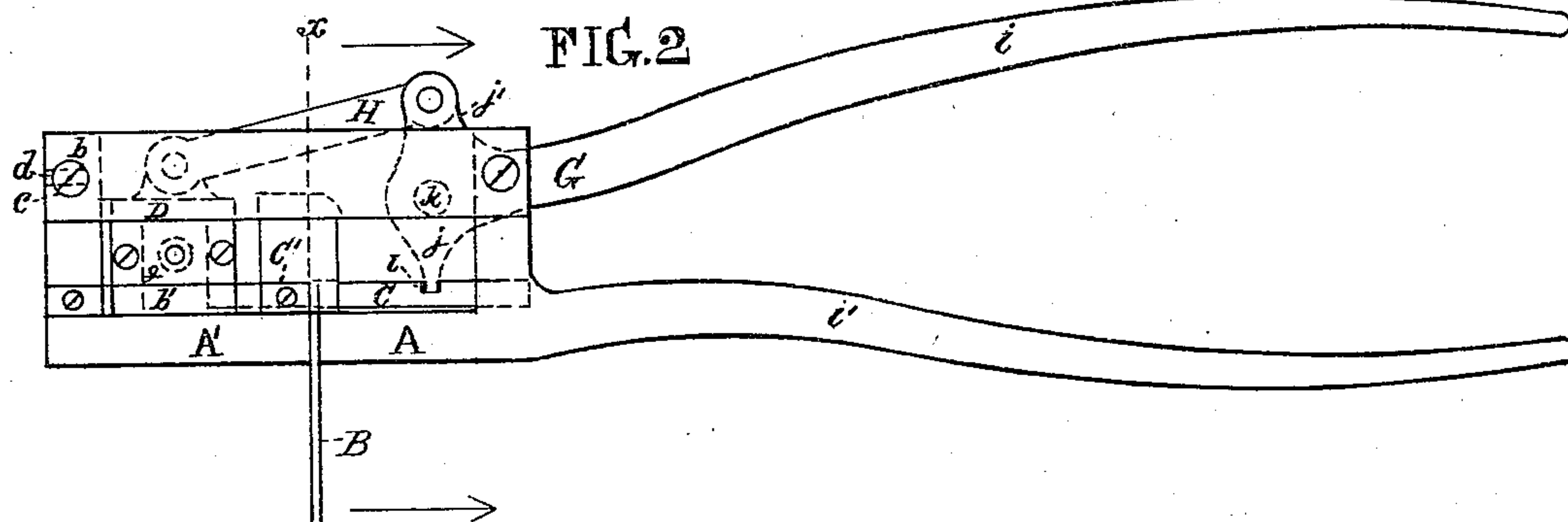
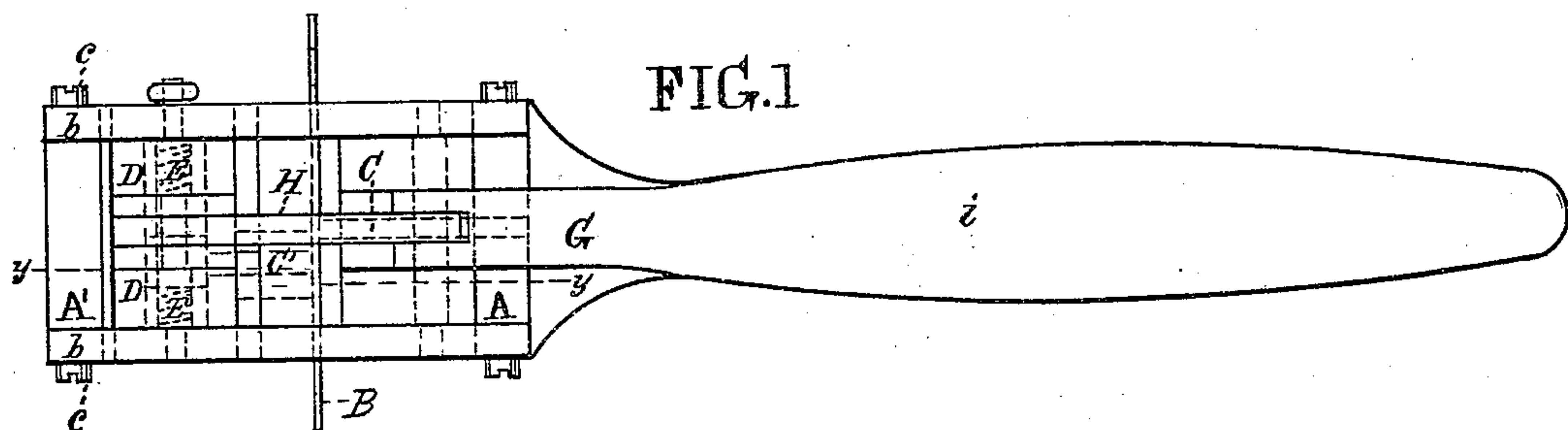


FIG. 4

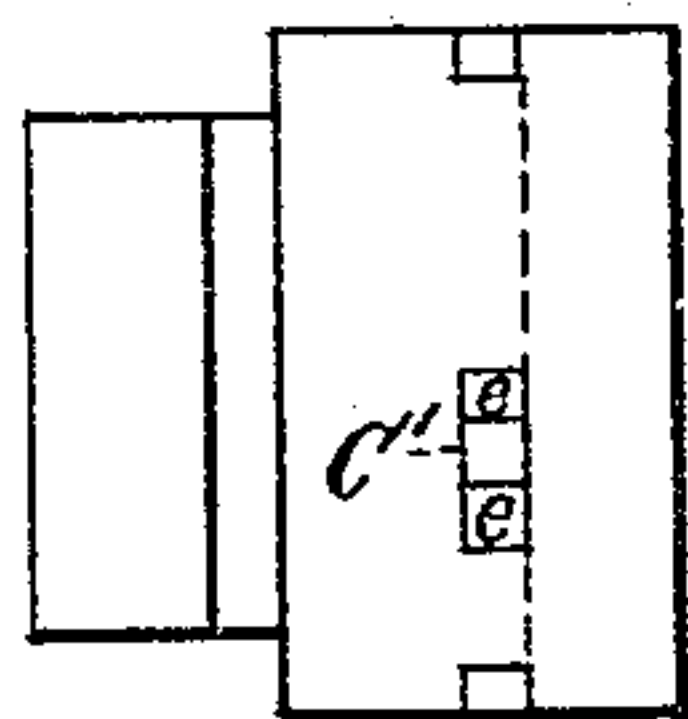


FIG. 5

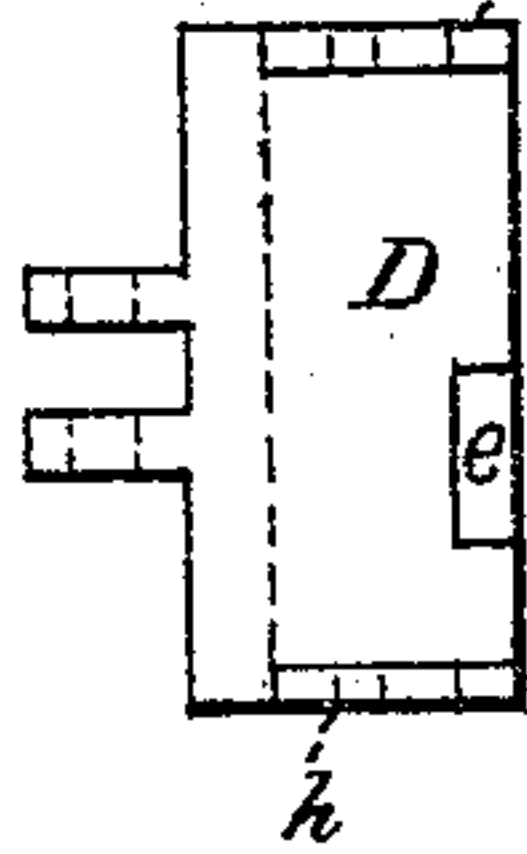


FIG. 7

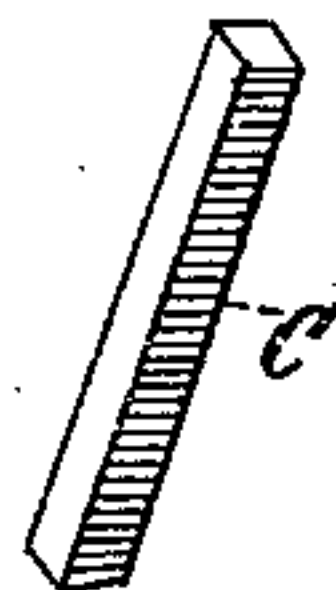


FIG. 6

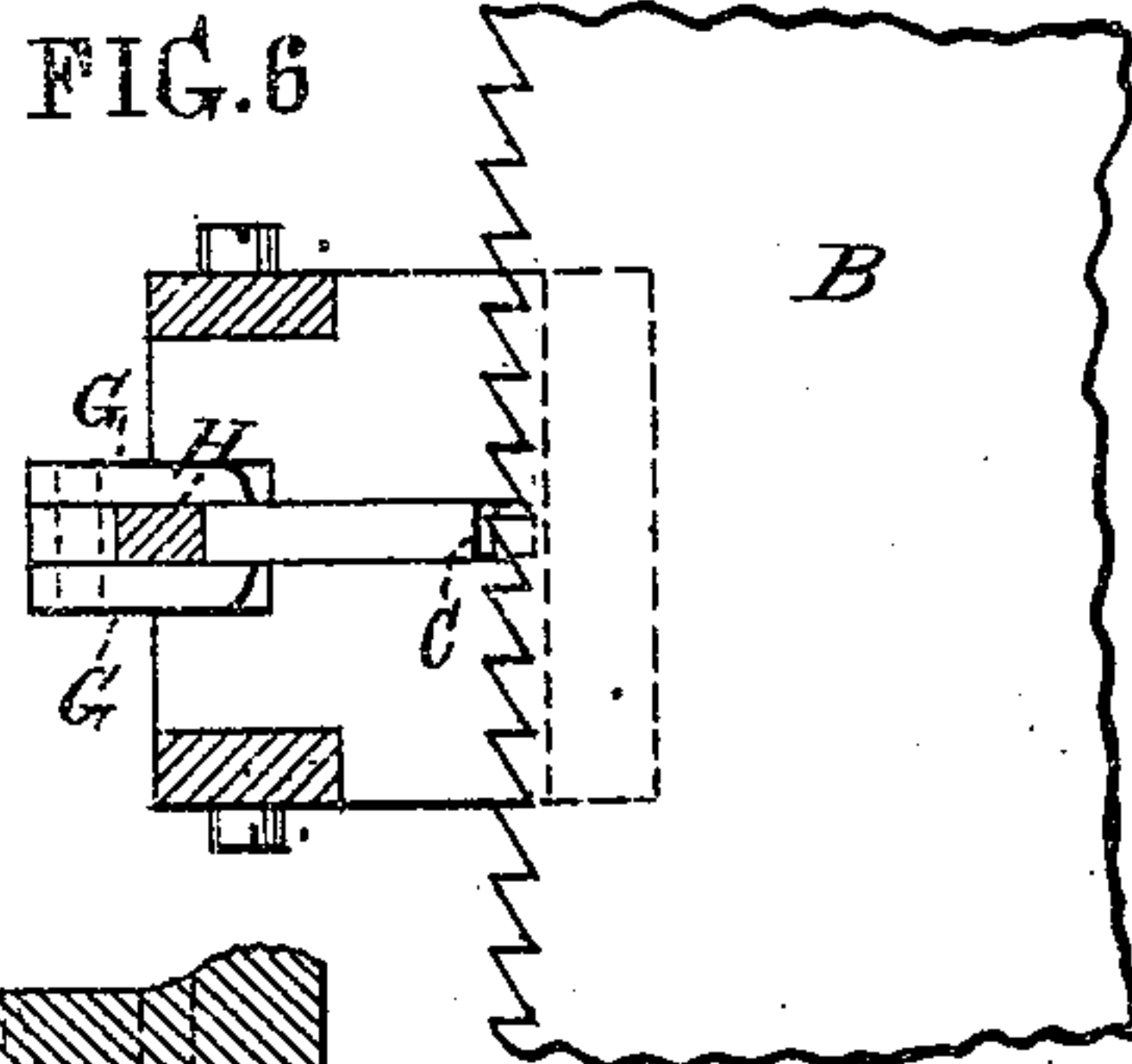
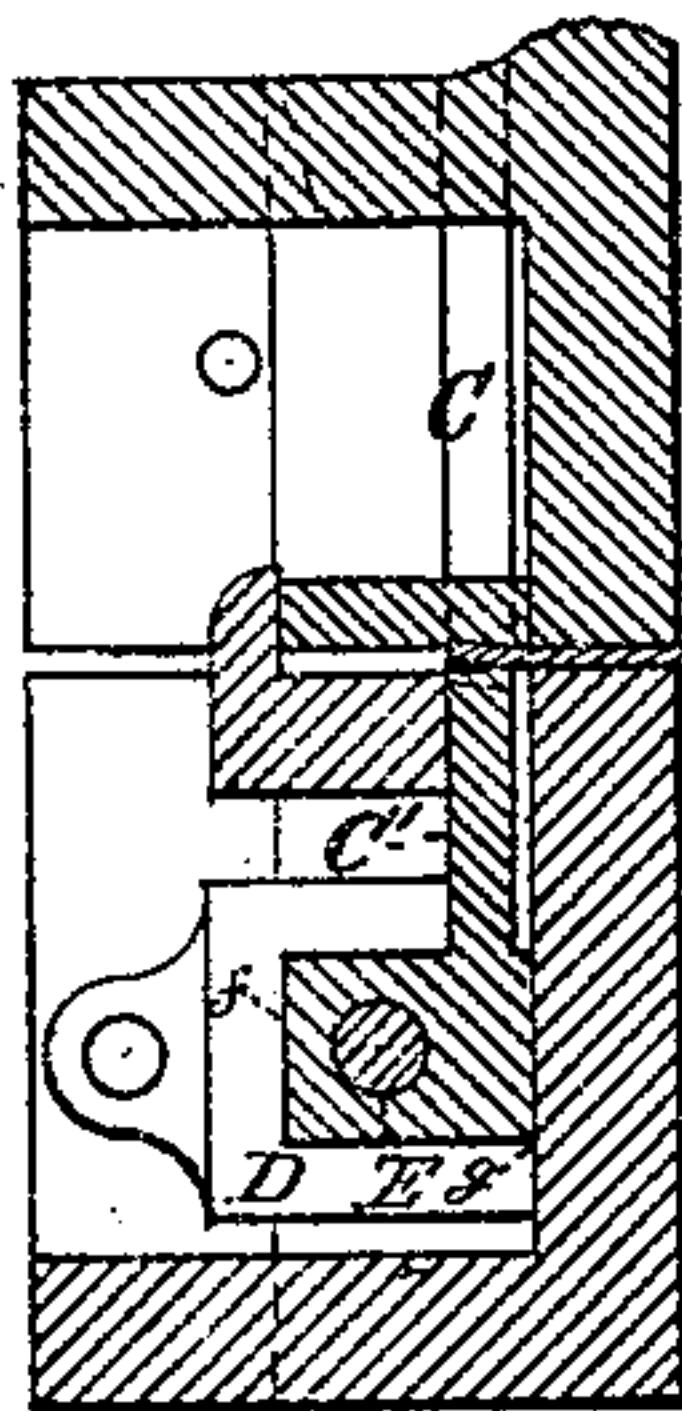


FIG. 9

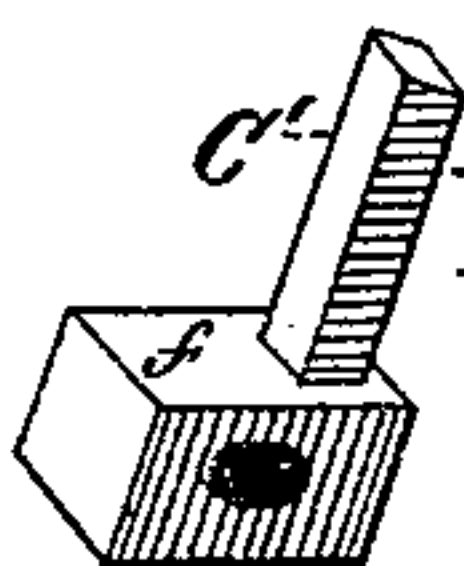


Witnesses

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FIG. 8



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# UNITED STATES PATENT OFFICE.

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## SAW-SET.

SPECIFICATION forming part of Letters Patent No. 250,932, dated December 13, 1881.

Application filed July 8, 1881. (No model.)

*To all whom it may concern:*

Be it known that we, MARTIN MARSHALL and HUGH J. McDEVITT, citizens of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Saw-Sets, of which the following is a specification.

The object of our invention is such a hand and portable saw-set which may be cheaply made and convenient in operation, and not liable to get out of order; and the nature of our invention consists as follows: The standing part of the saw-set is in two pieces, connected together so as to receive the blade of a saw between their ends, one piece being adjustable, as hereinafter described, to vary the distance between the two pieces in adaptation to various thicknesses of saws. The punches are caused to approach each other at opposite sides of the saw for setting two teeth at one operation by means of a lever having arms at opposite sides, one of which is connected immediately with one of the punches, and the other by means of a connecting-rod with a slide for operating the other punch, which has a lateral adjustment with said slide, as hereinafter fully described, in adaptation to the different pitches of the teeth of the saws.

In the accompanying drawings, which make a part of this specification, Figure 1 is a plan view of our improved saw-set. Fig. 2 is an edge view of the same. Fig. 3 is a bottom view. Fig. 4 is an end view of the casting A'. Fig. 5 is a like view of the slide D. Fig. 6 is a cross-section of the saw-set, taken at the line *xx* of Fig. 2, looking in the direction of the arrows. Fig. 7 is a perspective view of the punch C. Fig. 8 is a like view of the punch C'. Fig. 9 is a partial longitudinal section at the line *yy* of Fig. 1.

Like letters of reference in all the figures indicate the same parts.

The standing parts of the saw-set to which all the movable parts are connected are composed of the castings A and A' and the bars *b b*. One end of each bar is connected permanently to the casting A, and the other end is fastened to the casting A' by means of screws *c*, which pass through longitudinal slots *d* of the bars, for the purpose of making the cast-

ing A' adjustable to accommodate saws of different thickness.

The casting A is provided with a punch, C, and the casting A' with a punch, C', which is adapted to slide in the opening *e* of the inner end of the casting, the head *f* of the punch being movable transversely in the slide D, which has a longitudinal movement between the bars *b b*, above described, and similar bars, *b' b'*, at the lower part of the said casting A', the adjustment of the head being made as occasion may require in adaptation to the pitch of the teeth of different saws, the transverse adjustment being effected by means of the screw-rod E, located in the groove *g* in the under side of the slide, so as to turn freely therein without touching the sides of the groove, while the threads of the rod work in the nut of the head *f*. The ends of the rod have their bearings in the detachable plates *h h* on the vertical sides of the slide D.

The inner ends of the castings A and A' have bevel seats at the points 1 and 2 to correspond with the bevels of the punches C and C'. Movements are given to said punches simultaneously for alternately setting the teeth and withdrawing the punches therefrom by means of the lever G, as the handle *i* of the lever and the handle *i'* of the casting A are grasped with one hand, whereby the arm *j* of the lever, (as the latter has a partial turn on the fulcrum-pin *k*,) by being confined at its lower end in the cross-groove *l* of the punch C, operates the latter, and the arm *j'* operates the slide D through the intermediate connecting-rod H, and thus gives the longitudinal movement to the punch C', whereby the two teeth operated upon are set in opposite directions to each other. By a reverse movement of the lever the punches are returned to their former position (seen in the drawings) preparatory for setting the next pair of teeth; and the operation is in like manner continued until the setting is completed.

We claim as our invention—

1. The combination of the casting A' with the casting A by means of the bars *b b*, permanently connected at one end with the casting A and at their other end to the casting A' by means of screws *c* passing through slots *d* in said bars *b*, whereby the casting A' is ad-

justable to vary the distance of its inner end from the end of the casting A, to adapt the machine to saws of different thickness, substantially as described.

5 2. The combination of the punch C', having a head, *f*, with the slide D, having a cross-groove, *e*, and a screw-rod, E, for the lateral adjustment of the punch, substantially as described.

10 3. The combination of the lever G, casting

A, and punch C with the casting A', punch C', slide D, having a groove, *g*, and screw-rod E, substantially in the manner and for the purpose described.

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Witnesses:

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