

(No Model.)

R. E. POINDEXTER.
SAW JOINTER.

No. 577,388.

Patented Feb. 16, 1897.

Fig. 1.

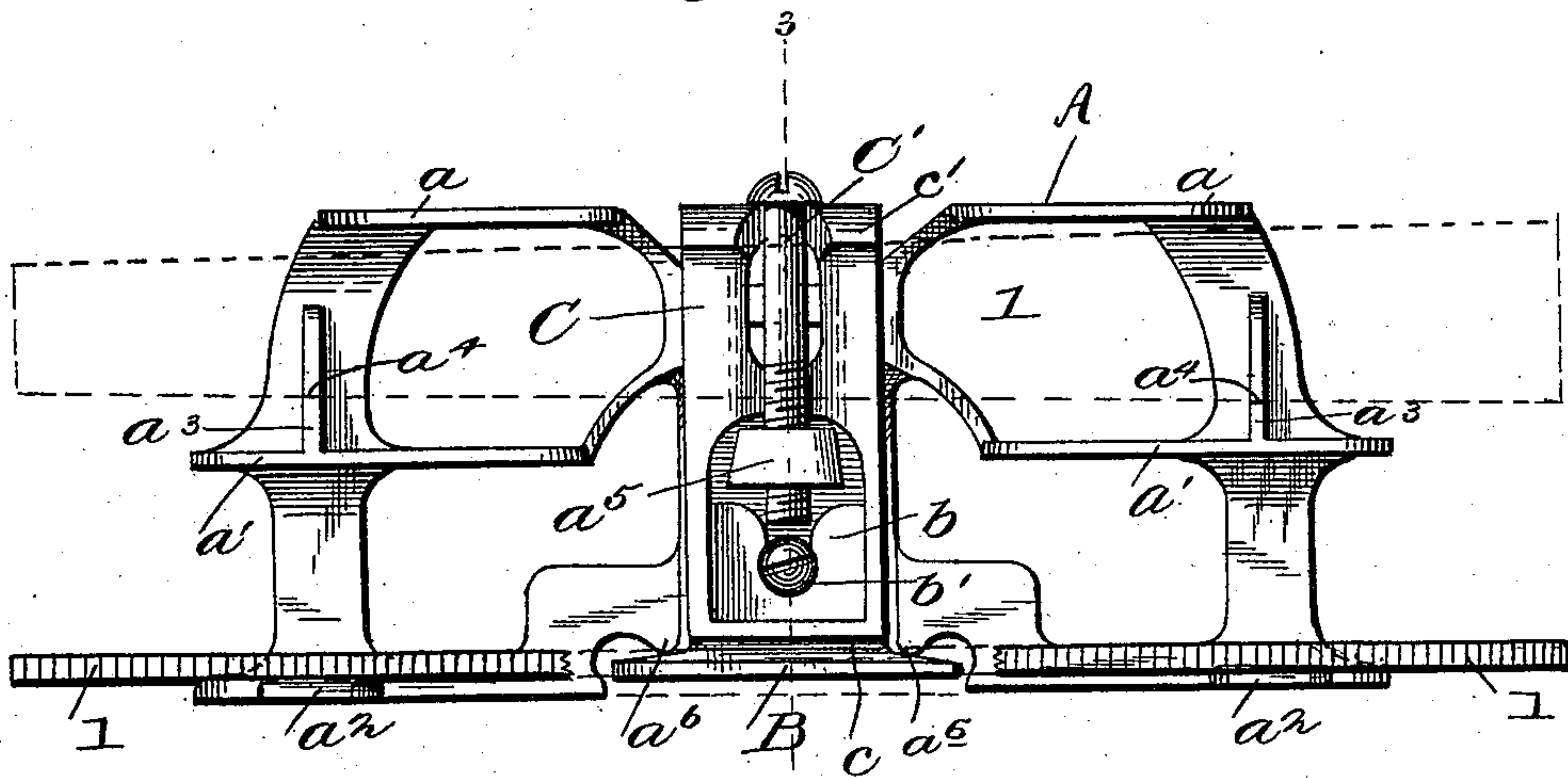


Fig. 3.

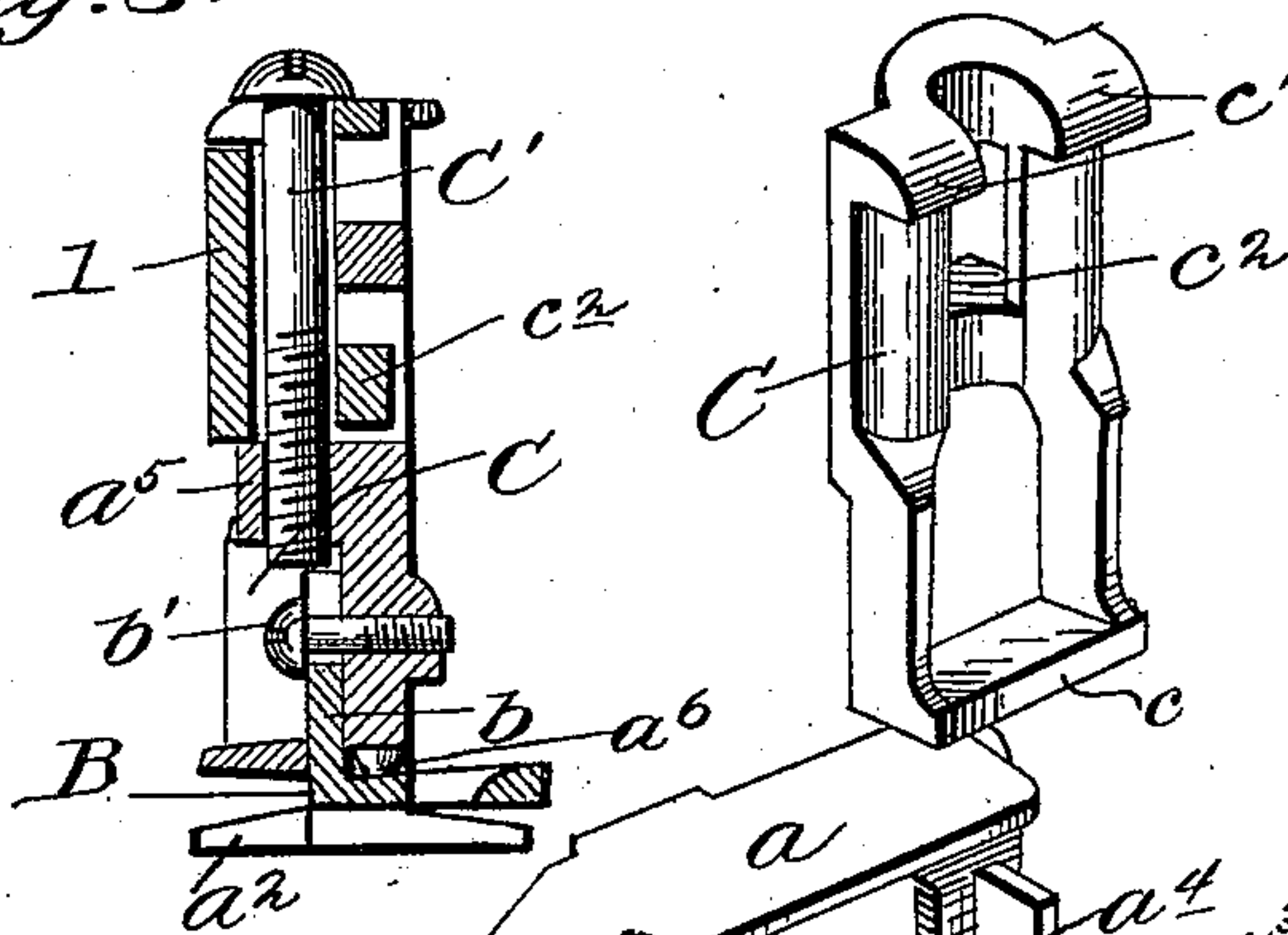
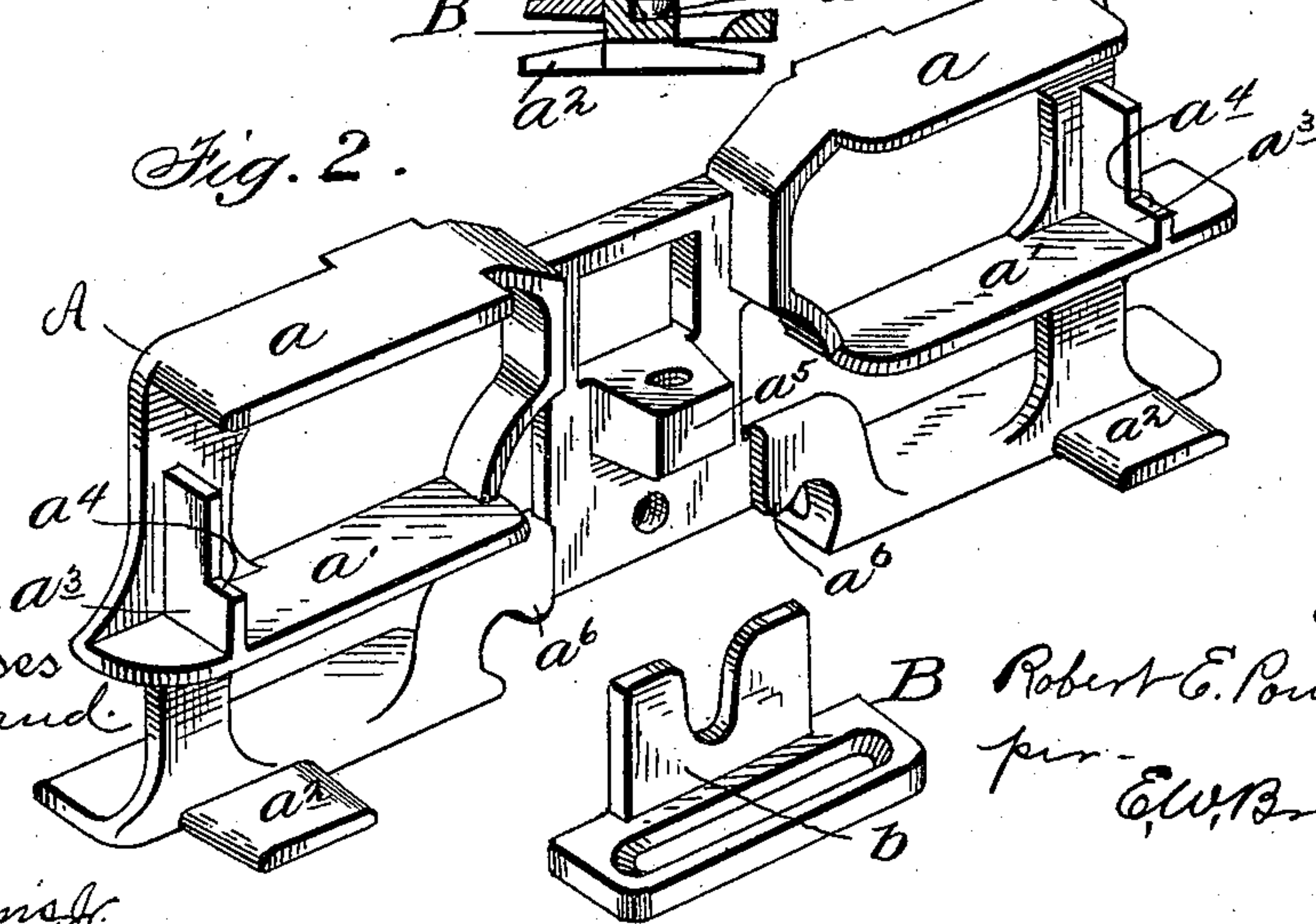


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT E. POINDEXTER, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO
EMMAZETTA HICKS, OF SAME PLACE.

SAW-JOINTER.

SPECIFICATION forming part of Letters Patent No. 577,388, dated February 16, 1897.

Application filed June 26, 1896. Serial No. 597,036. (No model.)

To all whom it may concern:

Be it known that I, ROBERT E. POINDEXTER, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Saw-Jointers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My present invention consists in various improvements in the details of construction of saw-jointers of that general form shown in my Patent No. 377,328, and particularly in the form of gage-plate and arrangements for securing it to the block or frame, as will be particularly described and claimed hereinafter.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a front side elevation of the jointer, the file being indicated by dotted lines in the position it occupies when used to dress the sides of the saw-teeth and in whole lines, with its central portion broken away, in the position it occupies when used to dress the points of the teeth; Fig. 2, a perspective view of the several parts separated to show their respective forms and constructions more clearly, and Fig. 3 a vertical section on the dotted line 3 3 in Fig. 1.

In said drawings the portions marked A represent the base-block or frame, B the gage-plate, and C the clamp. Said block A is of substantially the same form as that shown in my aforementioned patent. It is formed with longitudinally-extending ledges a a' and projections a^2 on its front side, which serve to support the frame against the side of the saw. Near each end vertical ribs a^3 are formed, in which shoulders a^4 are provided at the appropriate points to support the lower edge of the file when in the position shown by dotted lines in Fig. 1. The projections a^2 afford the rest for said file when in its other position. A lug a^5 is formed in the center of said block, in which is formed a vertical screw-threaded perforation for the clamping-screw. A recess or slot is also formed in the block above said lug, in which a projection on the

back of the clamp is mounted, said several features being substantially of the form and arrangement shown in said Patent No. 377,328.

The gage-plate B consists of a horizontal slotted plate with a vertical slotted or bifurcated shank b , which extends at a right angle with said plate and is mounted on a screw b' , inserted in a screw-threaded perforation in the block, said shank resting closely against the surface of said block and the plate proper extending horizontally across the central portion in a suitable recess provided therefor. Two cone projections a^6 are formed on the bottom of said recess, one at each end of said plate, which rests thereon. By this means said plate can be quickly and easily leveled or "trued up" longitudinally, as the points of the cones can be easily dressed off as required to secure the desired result. The plate is held true and level transversely by means of the right-angled shank b , the inner face of which is formed true and rests against a true-faced portion of the block. By having the shank bifurcated or with an open-ended slot said plate may be adjusted and removed and replaced without removing the screw b' , when desired.

The clamp C has a bearing-face c on its lower end and an overhanging flange c' on its top, which engage the file in its respective positions, as shown. It also has a lug c^2 on its rear side, which fits within the recess in the block A, as before described. At its lower end it is cut away somewhat on its rear side to provide for the shank of the gage-plate B, against which it fits snugly. The flange c' is provided with a central notch or aperture, through which the clamping-screw C' extends and into the screw-threaded perforation in the lug a^5 , said screw resting in a central depression in said clamp, and thus holding it securely in position, as well as furnishing the means for operating it.

The parts of my said jointer are assembled as follows: The gage-plate is first put in position, resting on the cones a^6 , which have been filed down so that said plate will have a true and level seat thereon. The screw b' is then inserted through the slot in the shank b and into its seat in the block and driven tightly against said shank, thus securing the

plate in position. The clamp C is then put in position, the clamping-screw C' inserted in place, which still further secures said gage-plate, as well as said clamp, and the tool is
 5 then ready to receive the file and be used. In use the file is placed flatwise between the projections a^2 and the lower end or bearing-face c of the clamp when it is to be used to dress the points of the teeth, and edgewise
 10 between the shoulders a^4 and the flange c' of the clamp when it is to be used to dress the sides of the teeth, the clamping-screw C' being operated in each case to move the clamp to receive and secure said file. To evenly
 15 dress the points of the raking or clearing teeth, the gage-plate is brought into use, the opposite side of the block, which is also provided with several bearing-points in the same plane, being placed against the side of the
 20 saw and the points of said teeth inserted in the slot in said plate and dressed, as usual.

Having thus fully described my said invention, what I claim as new, and desire to secure by Letters Patent, is—

25 1. In a saw-jointer, the combination of the block, the gage-plate formed with the bifurcated or open-slotted shank extending at right angles therewith, which gage-plate is mounted

in a suitable recess in said block on projecting points with said shank extending down into 30 a recess between said block and the file-clamp, a screw extending through said slot in said shank into said block for securing said gage-plate, and said saw-clamp and operating device for securing the file in either position on 35 suitable rests formed on said block, all substantially as set forth.

2. In a saw-jointer, the combination of the block having a seat for the gage-plate formed therein, a cone-shaped rest or projection be- 40 ing formed near each end of said seat, which serve as supports for said gage-plate, said plate formed with a shank extending down at right angles with its face, which rests and is secured against a suitably-formed seat on the 45 side of said block, and the horizontal portion of which plate rests on said cone-shaped projections under its ends, and the file-clamp, substantially as set forth.

In testimony whereof I affix my signature 50 in presence of two witnesses.

ROBERT E. POINDEXTER.

Witnesses:

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