No. 656,160. Patented Aug. 21, 1900.

C. A. BASSETT.

WATCHMAKER'S TOOL.

(Application filed Dec. 22, 1899.)

(No Model.)

Fig. 1.

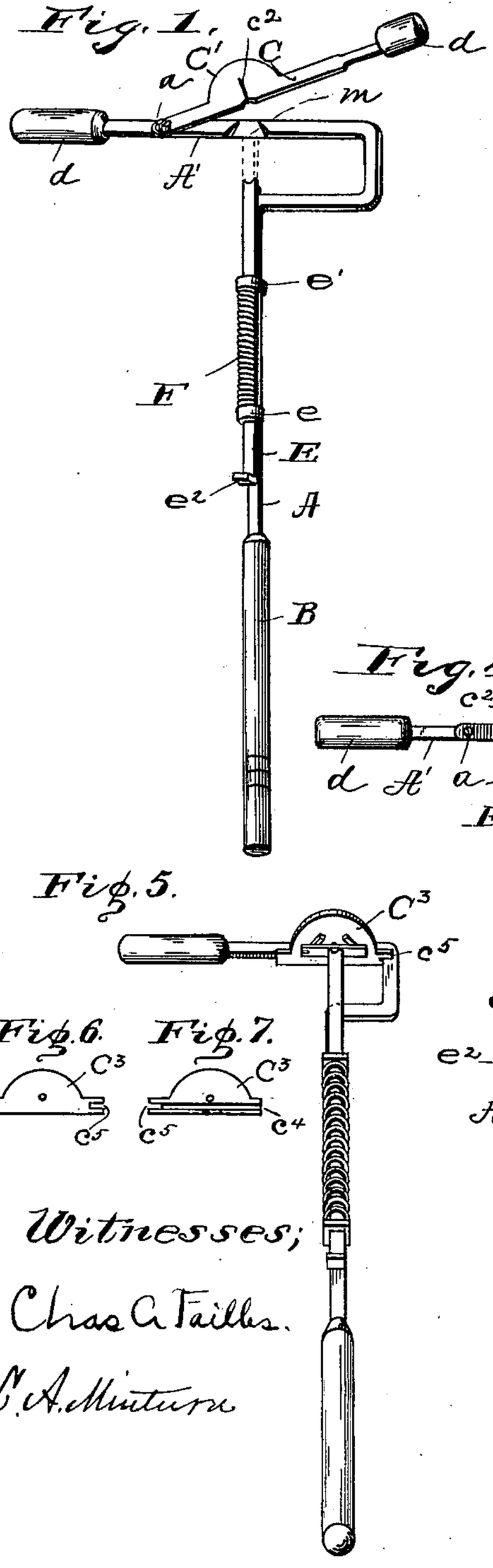

Fig. 2.

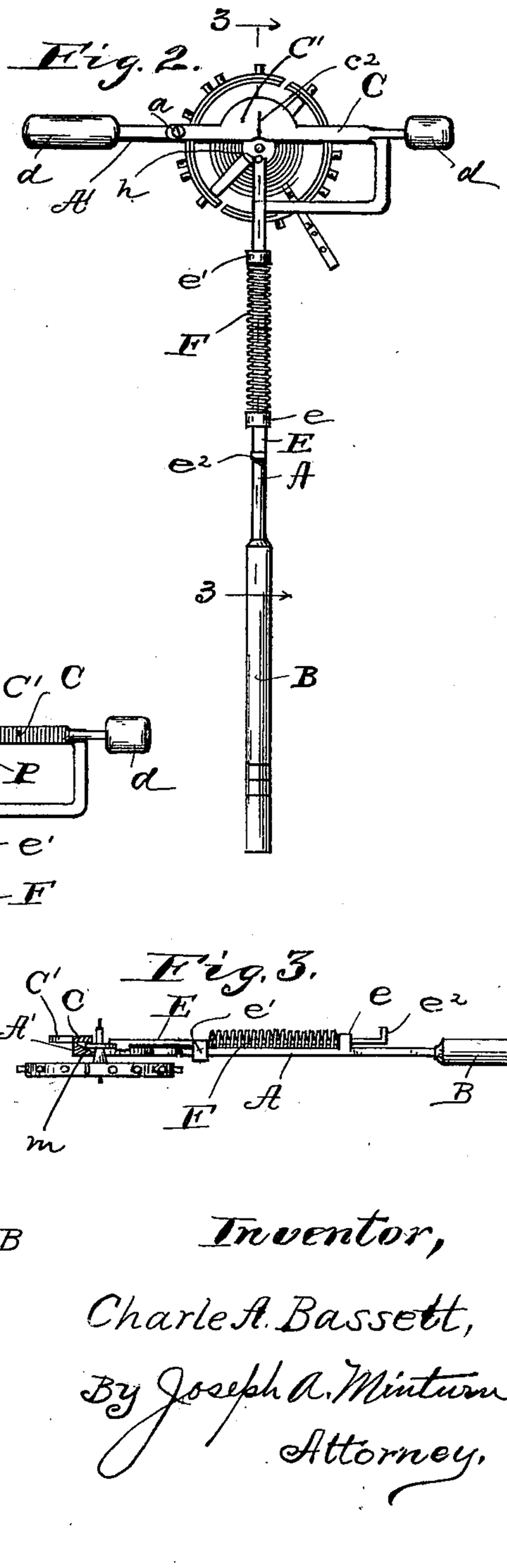

Fig. 4.

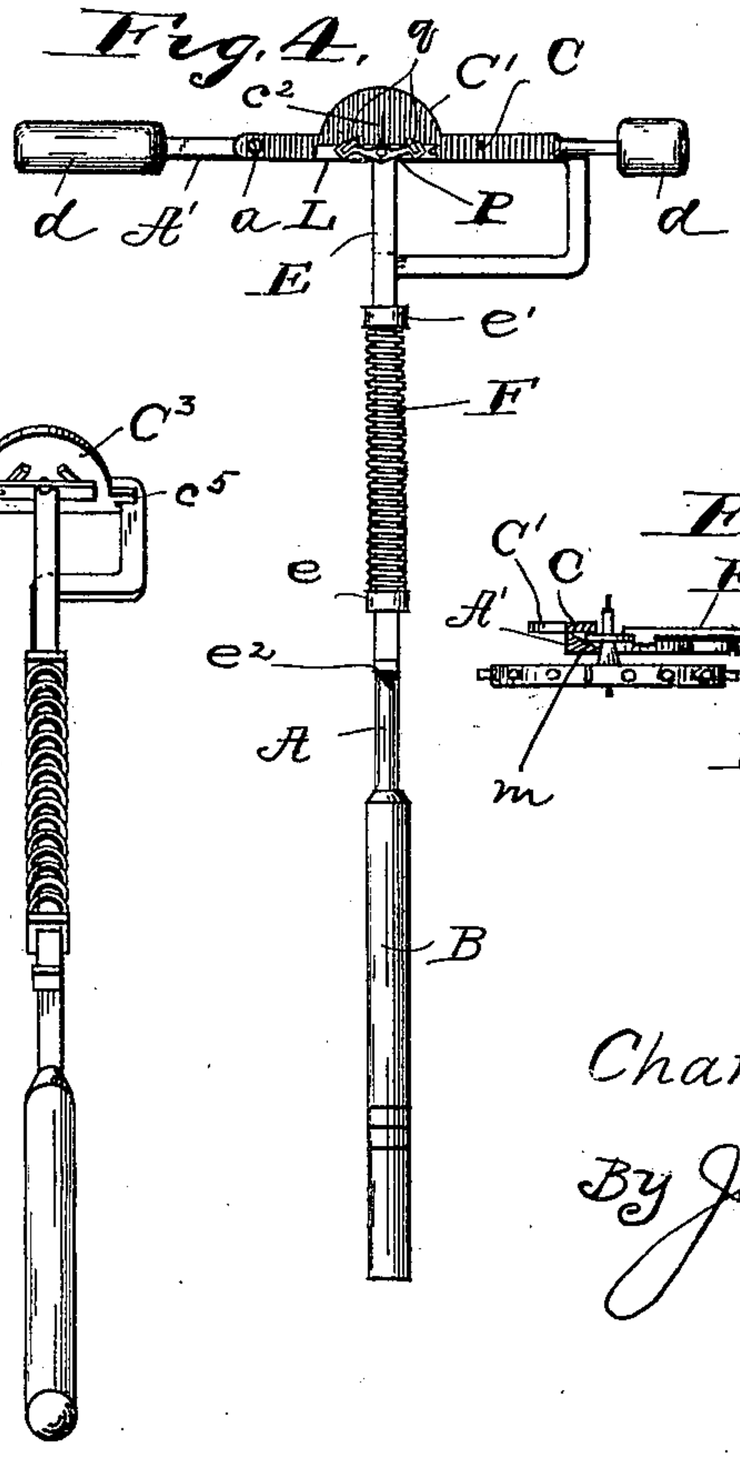

Fig. 5.

Fig. 6.

Fig. 7.

Fig. 3.

Witnesses;

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UNITED STATES PATENT OFFICE.

CHARLES A. BASSETT, OF ANDERSON, INDIANA.

WATCHMAKER'S TOOL.

SPECIFICATION forming part of Letters Patent No. 656,160, dated August 21, 1900.

Application filed December 22, 1899. Serial No. 741,266. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. BASSETT, a citizen of the United States, residing at Anderson, in the county of Madison and State of Indiana, have invented certain new and useful Improvements in Watchmakers' Tools, of which the following is a specification.

This invention relates to improvements in tools for setting the jewel in the roller-table of a watch and the jewels in the pallet; and the objects of the invention are to provide a tool in which the parts to be operated on may be securely retained during the operation and to provide means for heating the parts where the jewels are to be placed to a temperature sufficient to melt the shellac on the surface of those parts by which the jewels are held without danger of overheating the parts and in the case of the roller-table without requiring the balance-wheel and hair-spring to be detached during the operation. Much time and trouble will thus be saved in setting the jewels.

I accomplish the objects of the invention by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side view, slightly in perspective, of my invention ready to receive the roller-table of a watch; Fig. 2, a side elevation of the tool with the roller-table in working position, the latter having the balance-wheel and hair-spring attached to it; Fig. 3, a section on the dotted line 3 3 looking in the direction of the arrows, and Fig. 4 a side elevation of the tool with the lever-fork of a watch and attached pallet in place on the tool to receive the pallet-jewels; Fig. 5, a perspective view of a modified tool in which the enlargement or table to receive the pallet is removable; and Figs. 6 and 7 obverse and reverse sides, respectively, of the table.

Like letters of reference indicate like parts throughout the several views of the drawings.

A represents the body of the tool, which has the handle B at one end and a hook at the other, formed by bending the body laterally at right angles, then forward at right angles, and finally at right angles toward the side to bring the end across the path of the main body portion, forming the transverse part A′, by which the article will be mainly supported. The space between the sides of the hook or bow thus formed is large enough to allow the roller-table of all ordinary-sized watches to be inserted through from the back into position on top of the bar A′. Pivoted to the bar A′ is a bar C, which rests on top of the bar A′ and has swinging adjustment thereon. The pivot connecting the bar C to the bar A′ will be a set-screw *a*, whereby by tightening the screw the bar can be retained in position over the one to which it is fastened. The free ends of both bars A′ and C will be provided with metal tips or knobs *d*, preferably of copper, to be heated over a gas or alcohol flame and from which the heat will be conducted through the bars to which they are fastened to the roller-table or pallet to be jeweled.

The body A has the perforated lug *e*, through which a sliding bar E is projected, and the bar E has the perforated lug *e′*, which encircles bar A.

F is a coiled spring which is slipped onto the bar E and, being between the two lugs *e* and *e′*, forces the bar E out until its end contacts with the transverse member A′. The bar E has an under-side lug near its forward end, which contacts with the rim of the roller-table, the end of the bar E resting on top of the table and being notched to fit around the hole *h* in the table for the jewel. The notched end of the bar serves as a guide to direct the jewel into position. The other end of the bar E has the turned-up end e^2 as a finger-hold, by which the bar E is drawn back from bar A′ to allow for the placing of the roller-table in position.

The bar A′ is provided with the beveled notch *m*, opposite the end of the bar E, to receive the rim of the roller-table. The bar C passes over this notch *m* when the tool is in operative position, being swung around out of the way to receive the table and then moved back.

When the knob *d* is heated, the bar to which it is attached carries the heat over to the table and raises the temperature of the latter sufficient to melt the shellac with which the table is covered and by which the jewel is retained.

To set the pallet-jewels, the lever-fork, with pallet attached, or the pallet without the bar is held on top of the bar C, and by heating

the knob *d* on said bar C the pallet is made hot enough to melt the shellac to allow the jewels to be set. In Fig. 4, L is the lever-fork, P the pallet, and *q* the pallet-jewels. The bar C has the outside swell or widened portion C′, with deep slot c^2 in it to permit of the attachment to it of any style of lever.

Having thus fully described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

1. A body having its end bent laterally and then back to present said terminal portion at right angles to the main part of the body, said end terminating with an enlargement or knob, a bar resting normally on said transverse terminal portion and pivotally secured to it to permit the bar to be turned out of alinement and back, and a locking-bar having sliding attachment with the main portion of the body and having a spring by which it is pressed endwise into contact with the transverse end portion of said body, as and for the purposes specified.

2. In a tool for the purposes specified, a body having a handle at one end and having its other end bent laterally and then back to present that terminal portion at right angles to the main part of the body, said right-angled portion having beveled notch opposite the main body and having a knobbed terminal, a bar resting normally upon said transverse end portion of the body and pivotally secured at its end thereto and having a knob at its free end, and a locking-bar having sliding attachment to the main portion of the body and having a spring by which it is pressed endwise into contact with the transverse body portion, said bar having its end notched and having an under-side lug near the notched end, all substantially as described and for the purposes specified.

In witness whereof I have hereunto set my hand and seal, at Anderson, Indiana, this 14th day of September, A. D. 1899.

CHARLES A. BASSETT. [L. S.]

Witnesses:

JOHN L. BENNETT,

OWEN F. LESLEY.