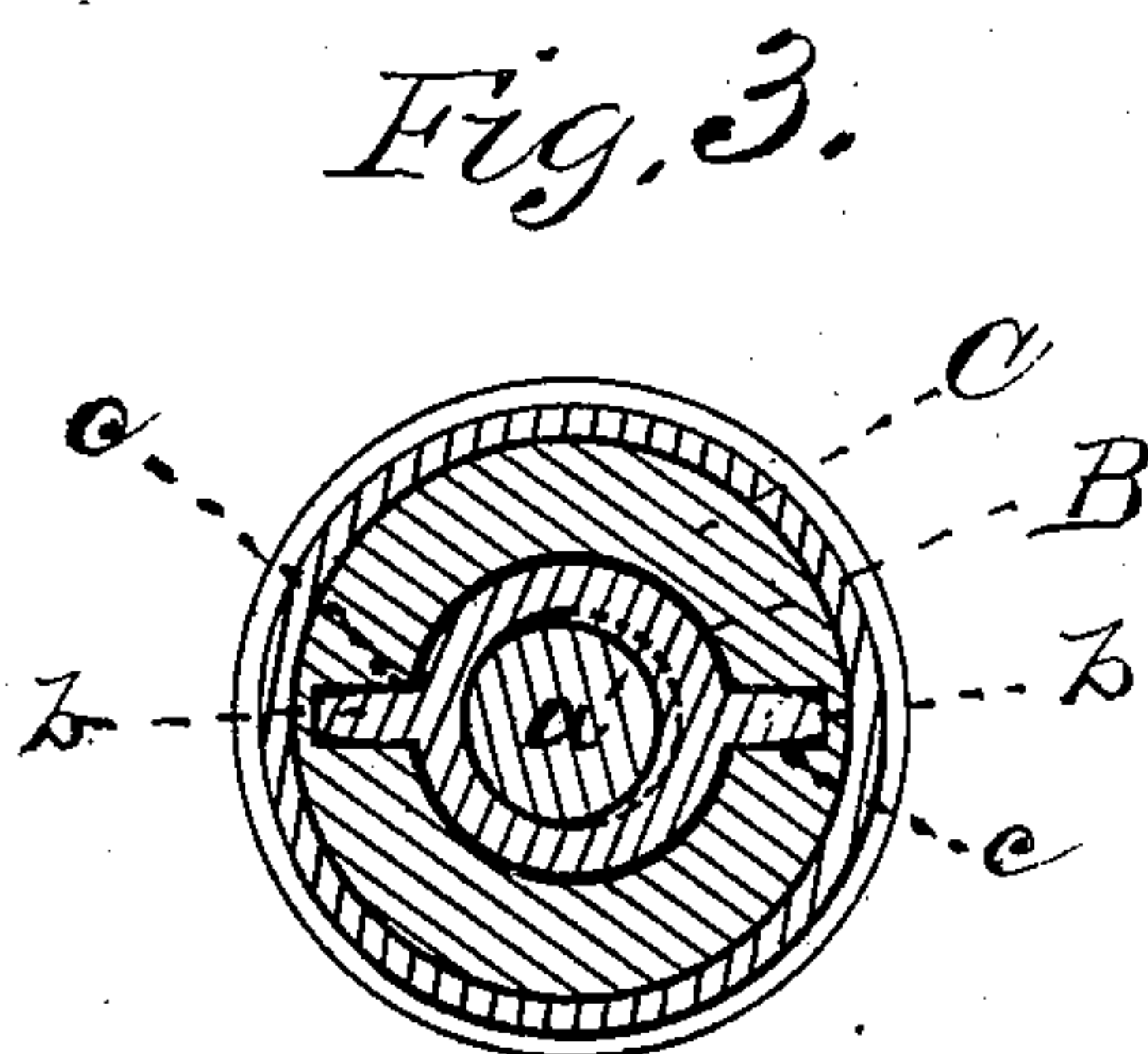
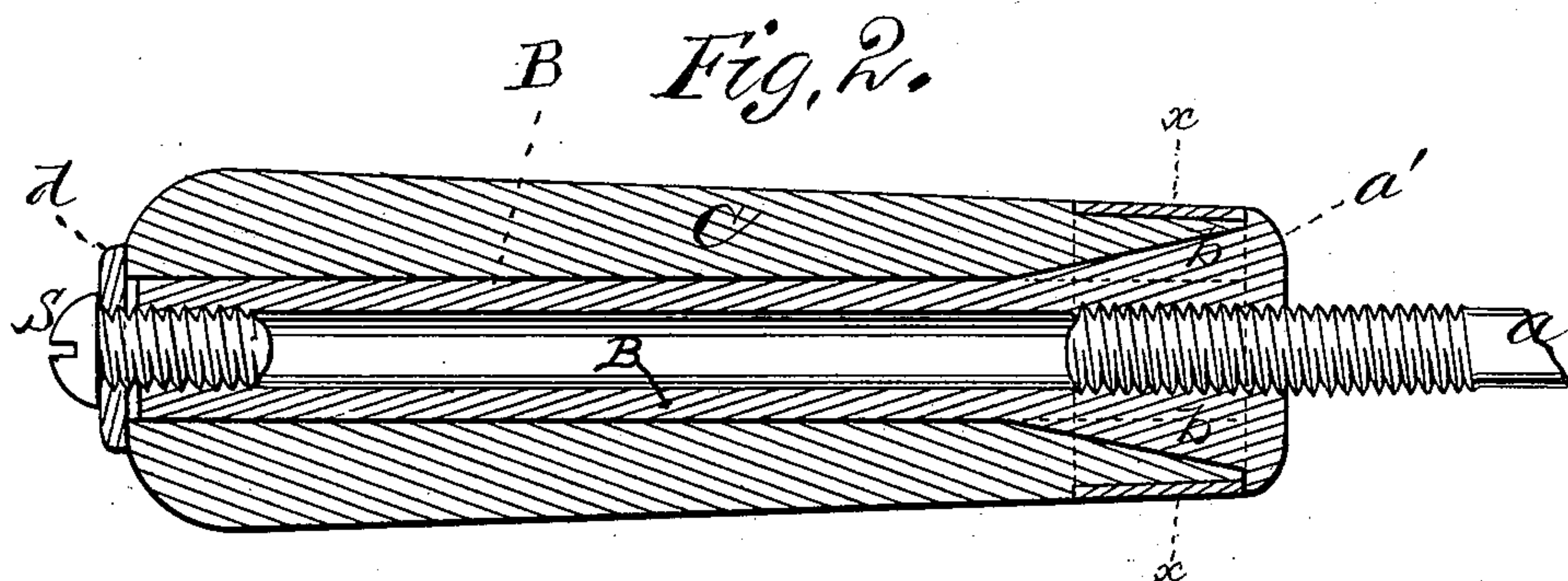
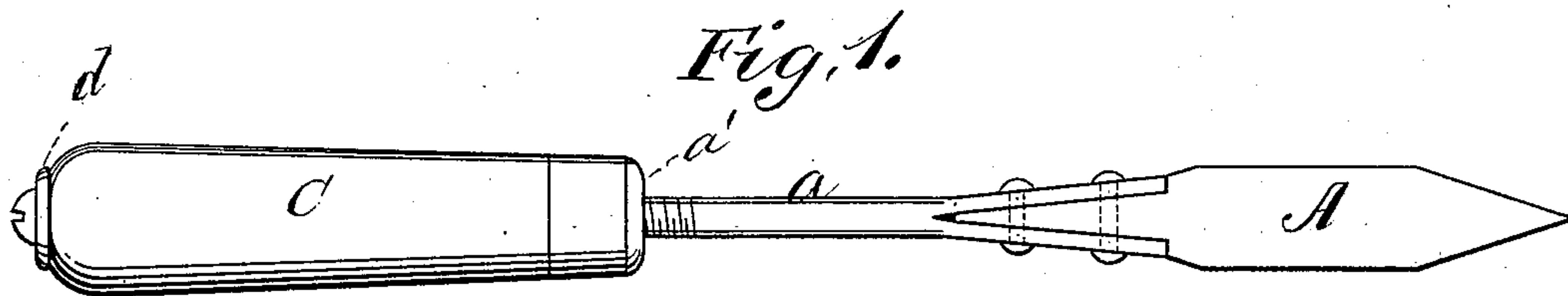


H. K. HINES.
Handle for Soldering Iron.

No. 206,328

Patented July 23, 1878.



WITNESSES
Villette Anderson.
A. J. Masi

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UNITED STATES PATENT OFFICE.

HENRY K. HINES, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN HANDLES FOR SOLDERING-IRONS.

Specification forming part of Letters Patent No. **206,328**, dated July 23, 1878; application filed June 1, 1878.

To all whom it may concern:

Be it known that I, HENRY K. HINES, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and valuable Improvement in Handles for Soldering-Irons; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of side view of a soldering-iron having my handle applied. Fig. 2 is a longitudinal central section of the handle; and Fig. 3 is a transverse section thereof, taken through the line *x x*.

This invention has relation to improvements in means for attaching tools exposed to heat to their handles; and the nature of the invention consists in combining, with a hollow wooden handle, a metal tube, female threaded at each end for the reception of the tang of the tool, and a clamp-screw extended through said handle, and preventing the same from being charred and loosening, as will be hereinafter more fully explained.

In the annexed drawings, the letter A designates a soldering-iron, in connection with which I now proceed to illustrate. The tang *a* of this iron is screwed into one end of a metallic tube, B, having a collar, *a'*, and two or

more wings, *b*, upon its end adjacent to the tang. This tube is extended nearly through a tubular wooden handle, C, the wings *b* being received in recesses *c*, formed in the bore of the said handle, and the collar abutting against its end, and is prevented from dropping out therefrom by means of a washer, *d*, bearing against the outer end of the said handle, and a clamp-screw, S, extending through said washer and screwed into the tube B. By setting up this screw the wooden handle is vigorously clamped between the collar and washer, and the tube B being prevented from rotating by the engagement of the wings *b* in recesses *c* aforesaid, a very effective tool-handle is produced, out of which the tool can neither drop nor in which turn.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with the tubular handle C, having recesses *c*, of the metallic tube B, female threaded at each end, having wings *b* and collar *a'*, and extending nearly through said handle, the washer *d*, and set-screw S, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HENRY K. HINES.

Witnesses:

E. L. PERDRIAUX,

ALLEN H. GANGEWER.