John C. Reynolds' Impd Soldering Tool.

No. 120,166. assigned to Patented Oct. 24, 1871,

himself and Francis Gardner.

Fig. 1

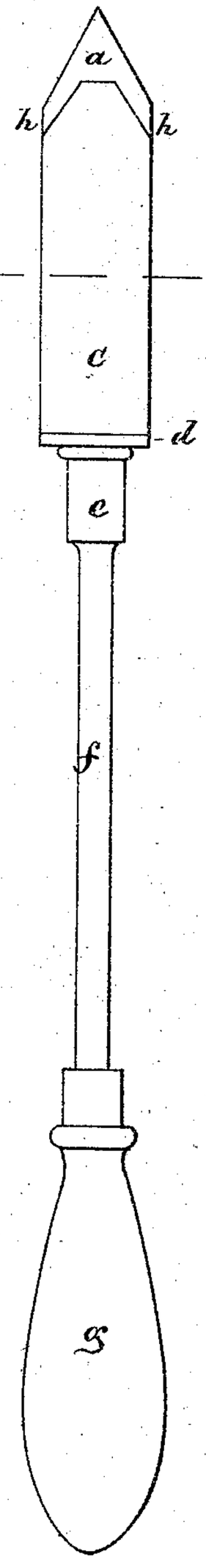

Fig. 2.

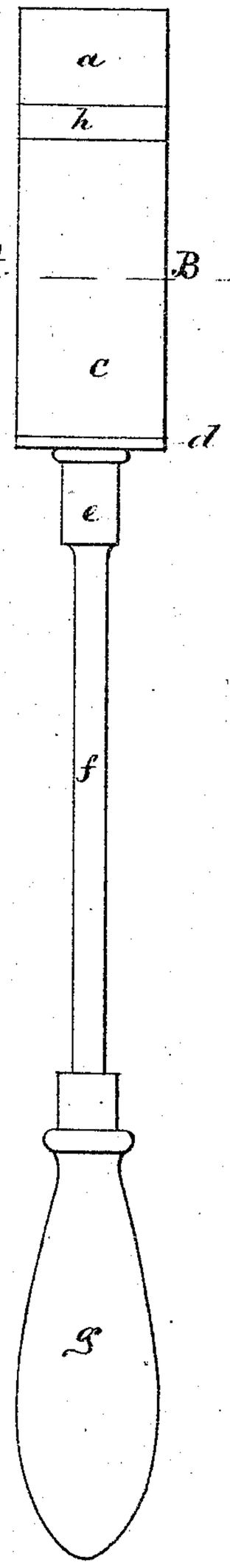

Fig. 3.

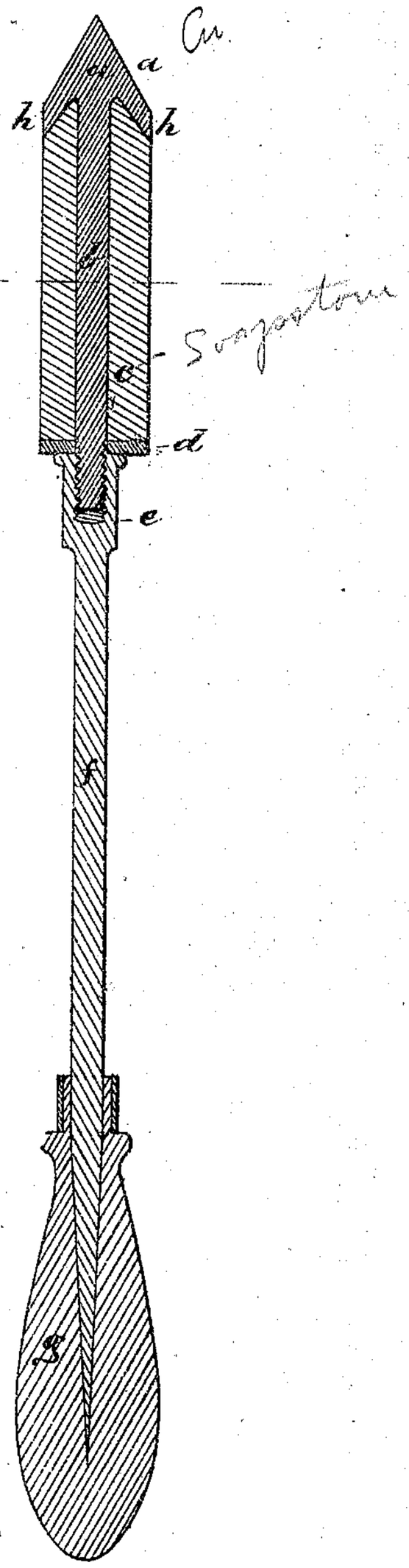

Fig. 4.

Witnesses:

Maurits Andersen

Helen L. Torrey.

Inventor:

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UNITED STATES PATENT OFFICE.

JOHN C. REYNOLDS, OF TAUNTON, MASSACHUSETTS.

IMPROVEMENT IN SOLDERING-IRONS.

Specification forming part of Letters Patent No. 120,166, dated October 24, 1871; antedated October 7, 1871.

To all whom it may concern:

Be it known that I, JOHN C. REYNOLDS, of Taunton, in the county of Bristol and State of Massachusetts, have invented certain Improvements in Soldering-Tools, of which the following is a specification:

The nature of my invention relates to certain improvements on soldering-tools. The tool is made of a copper or composition point attached to a piece of soap-stone, the whole being secured to a handle in a suitable way.

On the drawing, Figure 1 is a side elevation; Fig. 2, a front elevation. Fig. 3 is a central longitudinal section of Fig. 2, and Fig. 4 is a cross-section over the line A B taken on Fig. 2.

Similar letters refer to similar parts wherever they occur on the drawing.

a on the drawing is a copper or composition point of suitable shape, to which is secured or cast in one piece, as may be convenient, a bolt, *b*, as shown in Fig. 3. The bolt *b* projects through a hole in a piece of soap-stone, *c*, and through the washer *d*, as shown. Said bolt *b* is provided with a screw-thread in its lower end. A nut, *e*, attached to the metallic rod *f*, screws over the lower end of the bolt *b*, and the soap-stone *c* is thus held firmly between the point *a* and the washer *d*, as shown. To the lower end of the rod *f* is attached a wooden handle, *g*, in the usual way. The sides *h h* of the point *a* overlap the soap-stone *c*, by which arrangement the soap-stone is protected materially where the greatest heat ensues. I construct my soldering-tool, also, with two points, when required, having the soap-stone between them, and the handle in the middle; but for common soldering, the one as represented in the drawing is the most practical. The point *a* may be chisel-shaped or pointed from all sides, as may be desired.

The advantages gained with my invention over common soldering-tools are, that an even and more lasting heat is obtained with a soap-stone; a metallic soldering-iron gives too sharp a heat and conducts the heat suddenly to the surroundings; whereas my improved tool retains the heat, evenly, a much longer time. My tool is also much lighter than metallic ones for the same capacity, and is a great deal cheaper than some metallic ones now extensively in use.

Having thus described the nature, construction, and arrangement of my invention, I wish to secure by Letters Patent, and claim—

As a new article of manufacture, a soldering-tool formed of the copper or composition point *a*, secured to a soap-stone, *c*, and provided with a metallic handle, *f*, as and for the purpose described.

JOHN C. REYNOLDS. [L. S.]

Witnesses:
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E. E. TINKHAM.

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