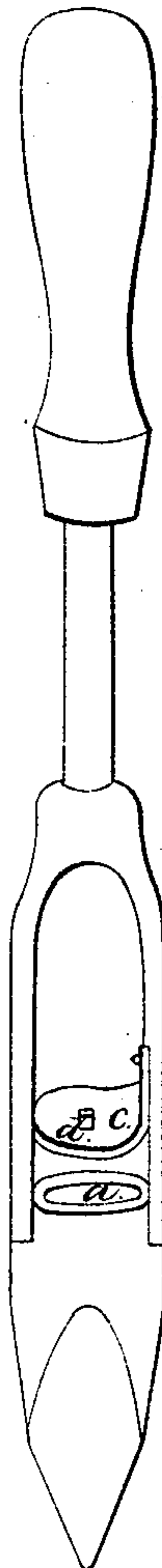


*D. Dod,*

*Soldering Iron.*

*N<sup>o</sup> 14,176.*

*Patented Jan. 29, 1856.*

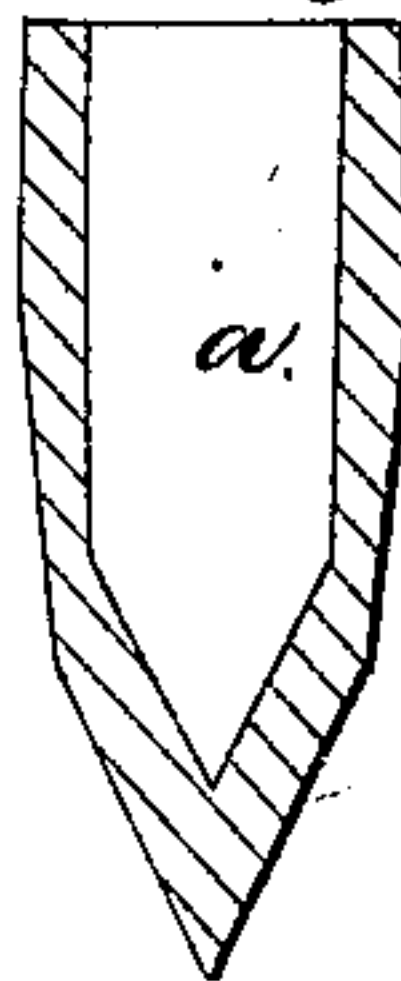


*Fig. 1.*

*Fig. 2.*



*Fig. 3.*



*Witnesses.*

*A. H. Draper.*  
*James D. Mackay.*

*Inventor.*

*Daniel Dod.*

# UNITED STATES PATENT OFFICE.

DANL. DOD, OF BROOKLYN, NEW YORK, ASSIGNOR TO HIMSELF AND HENRY F. READ, OF SAME PLACE.

## IMPROVED SOLDERING-IRON.

Specification forming part of Letters Patent No. 14,176, dated January 29, 1856.

*To all whom it may concern:*

Be it known that I, DANIEL DOD, of the city of Brooklyn, county of Kings, and State of New York, have invented a new and Improved Soldering-Iron; and I do hereby declare that the following is an exact and full description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in constructing soldering-irons hollow, so that a movable center or core can be heated and inserted into the hollow of the soldering-iron, thereby avoiding the necessity of heating the soldering-iron by direct contact with the fire. I make the movable center of iron, that metal being inferior to copper as a conductor of heat, and thereby secure a working heat to the soldering-iron for about double the time it would have if the bit were entirely of copper, while it also retains the chemical or metal affinity of the copper for the solder.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct my soldering-iron in any of the known forms, with copper bit, handle of iron, incased in wood in the usual way, except that the iron handle is so arranged as to allow the

movable center to be easily changed. I make the copper bit hollow, as shown at *a*, Figures 1 and 3, and insert in that hollow the movable center or core *b*, Fig. 2, made of iron or any suitable material. I attach to the handle, by means of the rivet *e*, a bent button, *c*, to be turned when the heated center is in the bit, so as to prevent the center from dropping out when the soldering-iron may be used. *d*, Fig. 1, is a knob to turn the button by; *f*, Fig. 2, a hole in which to insert a wire to handle the heated center with.

I do not claim the iron handle or copper bit, nor any particular external form of soldering-irons, nor the general application of heated centers as used in embossing irons or rollers, crimping-irons, curling-tongs, and hatters' irons, as they have been known and used previous to my invention; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The combination of a hollow bit of copper, with movable center of iron, in the construction of soldering-irons, as described in the foregoing specification.

DANIEL DOD.

Witnesses:

J. G. MORGAN,  
D. MELLAR.