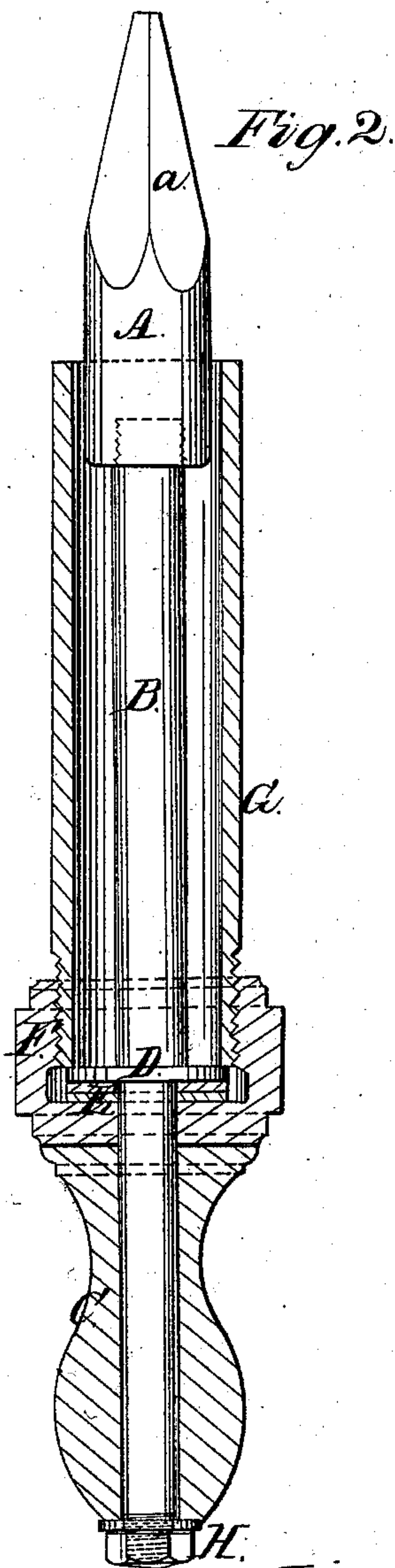
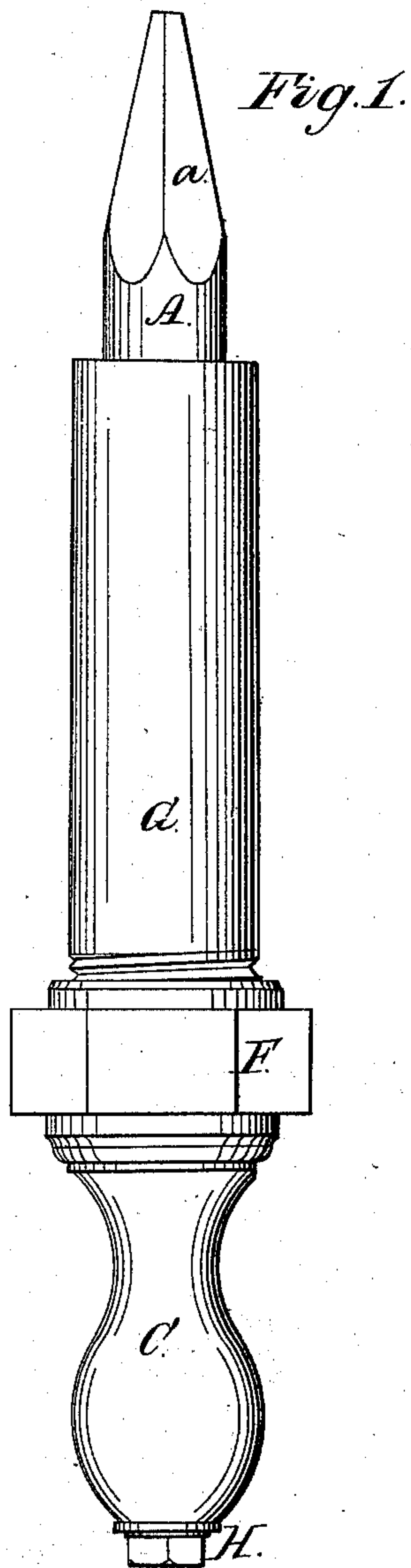


W. K. Lewis,
Soldering Iron.
N^o 47,965. Patented May 30, 1865.



Witnesses.

Wm. Brown
Theo. Lusk

Inventor.

W. K. Lewis
per Munn & Co
attorneys

UNITED STATES PATENT OFFICE.

WILLIAM K. LEWIS, OF BOSTON, MASSACHUSETTS.

SOLDERING-IRON.

Specification forming part of Letters Patent No. 47,965, dated May 30, 1865.

To all whom it may concern:

Be it known that I, WILLIAM K. LEWIS, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and Improved Soldering-Iron; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an external view of my invention; Fig. 2, a longitudinal central section of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved soldering-iron, designed more especially for hermetically sealing cans, and for similar purposes in which a small iron is used.

The invention consists in the employment or use of a shield applied to the implement in such a manner as to prevent the radiation of heat therefrom and retard the cooling of the iron or, rather, copper, as well as to protect the operator from the heat thereof.

A represents the copper head, which may be of cylindrical form and tapered at its outer end in pyramidal form, as shown at *a*.

B is a rod attached to the copper head A, and having a wooden handle, C, on its end. This rod B has a collar or shoulder, D, upon it, with a packing, E, of india-rubber or other material, placed against said shoulder. This shoulder D and packing E are within a nut, F, into which one end of a cylindrical tube, G, is screwed, as shown clearly in Fig. 2. This tube G entirely incloses the rod B and a greater or less portion of the copper A, as may be desired, by turning the tube G so as to screw it farther into or out from the tube G. The packing E is kept in close contact with the inner side of nut F by means of the nut H on the end of rod B, and a tight joint is thereby formed. The tube G forms a shield for the rod and copper head. This shield may be of brass or other suitable metal.

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

A shield applied to a soldering-iron, in the manner substantially as shown and described.

WILLIAM K. LEWIS.

Witnesses:

ELBRIDGE C. COMEY,
ROBERT P. LONG.