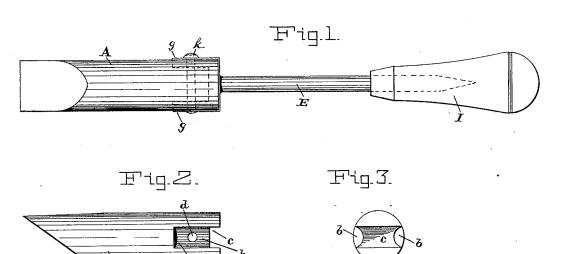
(No Model.)

F. W. SCHULTZ. SOLDERING IRON.

No. 346,319.

Patented July 27, 1886.



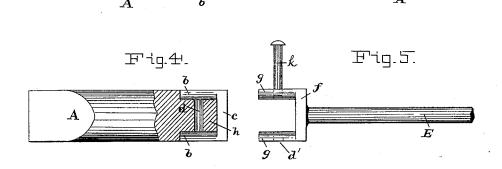
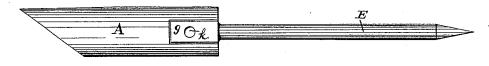


Fig.6.



₩itnesses:

a.C. Eader

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FREDERICK W. SCHULTZ, OF BALTIMORE, MARYLAND.

SOLDERING-IRON.

SPECIFICATION forming part of Letters Patent No. 346,319, dated July 27, 1886.

Application filed May 27, 1886. Serial No. 203,379. (No model.)

To all whom it may concern:

Beitknown that I, FREDERICK W. SCHULTZ, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Soldering-Irons, of which the following is a specification.

My invention relates to an improved soldering-iron, and has for its object to provide an improved construction for uniting the copperhit and the handle should

bit and the handle shank.

The invention is illustrated in the accompanying drawings, in which Figure 1 is a view of the improved soldering-iron. Fig. 2 is a side view of the copper bit. Fig. 3 is an end view of the copper-bit. Fig. 4 is a view showing the copper-bit, partly in section. Fig. 5 is a view of the handle-shank. Fig. 6 is a side view of the copper-bit and handle-shank

The copper bit A, by means of a suitable die, has its head swaged to the form shown—that is, two grooves, b, are formed in the sides, one being diametrically opposite the other, and at the end a cross groove, c, which connects the two side grooves, or extends between them. A hole, d, is also made through the head and opens in the two side grooves.

The handle shank consists of a straight rod, 30 E, and at one end has a cross-head, f, at right angles to the rod. Two prongs, g, are attached to the cross-head f, and are parallel with each other, the space between the prongs being exactly equal to the width of that part, h, of the 35 copper-bit head between the two side grooves.

Each prong has a hole, d'. The other end of the handle-shank is pointed, or otherwise suitably shaped to receive the usual wood handle, I.

The two side grooves, b, and the end cross-groove, c, of the copper-bit are occupied, respectively, by the two prongs g and the cross-head f of the handle-shank, and a bolt, pin, or rivet, k, passes through the hole in the two prongs and the part h of the copper-bit head. 4! This construction allows the handle-shank to enter not only the sides but the end of the copper-bit, and with the rivet comprises a firm and strong coupling of the said parts. When thus shaped, the handle-shank may be made of 50 malleable cast-iron, and is therefore cheap.

Having described my invention, I claim and desire to seure by Letters Patent of the United States—

A soldering iron having a copper-bit provided with two side grooves, one diametrically opposite the other, and a cross-groove at the end extending between the two side grooves, in combination with a handle shank provided at one end with a cross-head, which occupies the said cross-groove, and two prongs, which occupy the said side grooves, and a rivet passed through the two prongs and copper-bit head, as set forth.

In testimony whereof I affix my signature 6 in the presence of two witnesses.

FREDERICK W. SCHULTZ.

Witnesses:

JOHN E. MORRIS, JNO. T. MADDOX.