

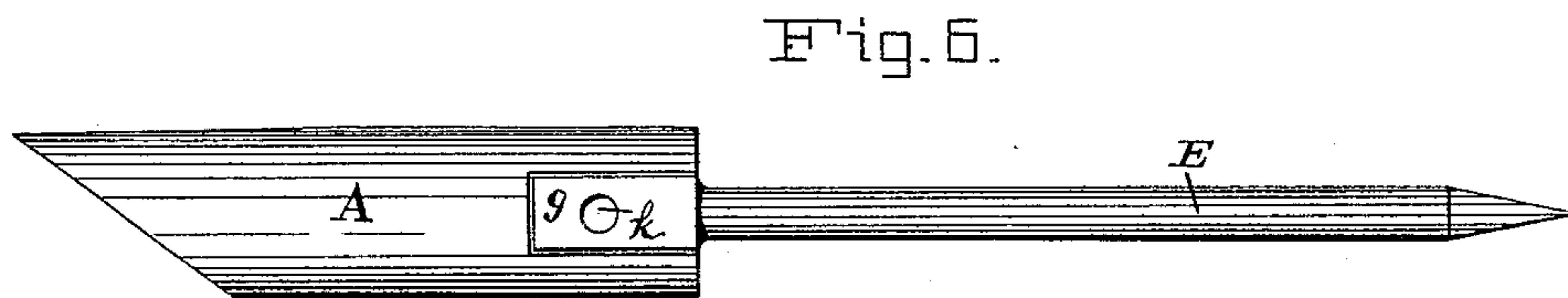
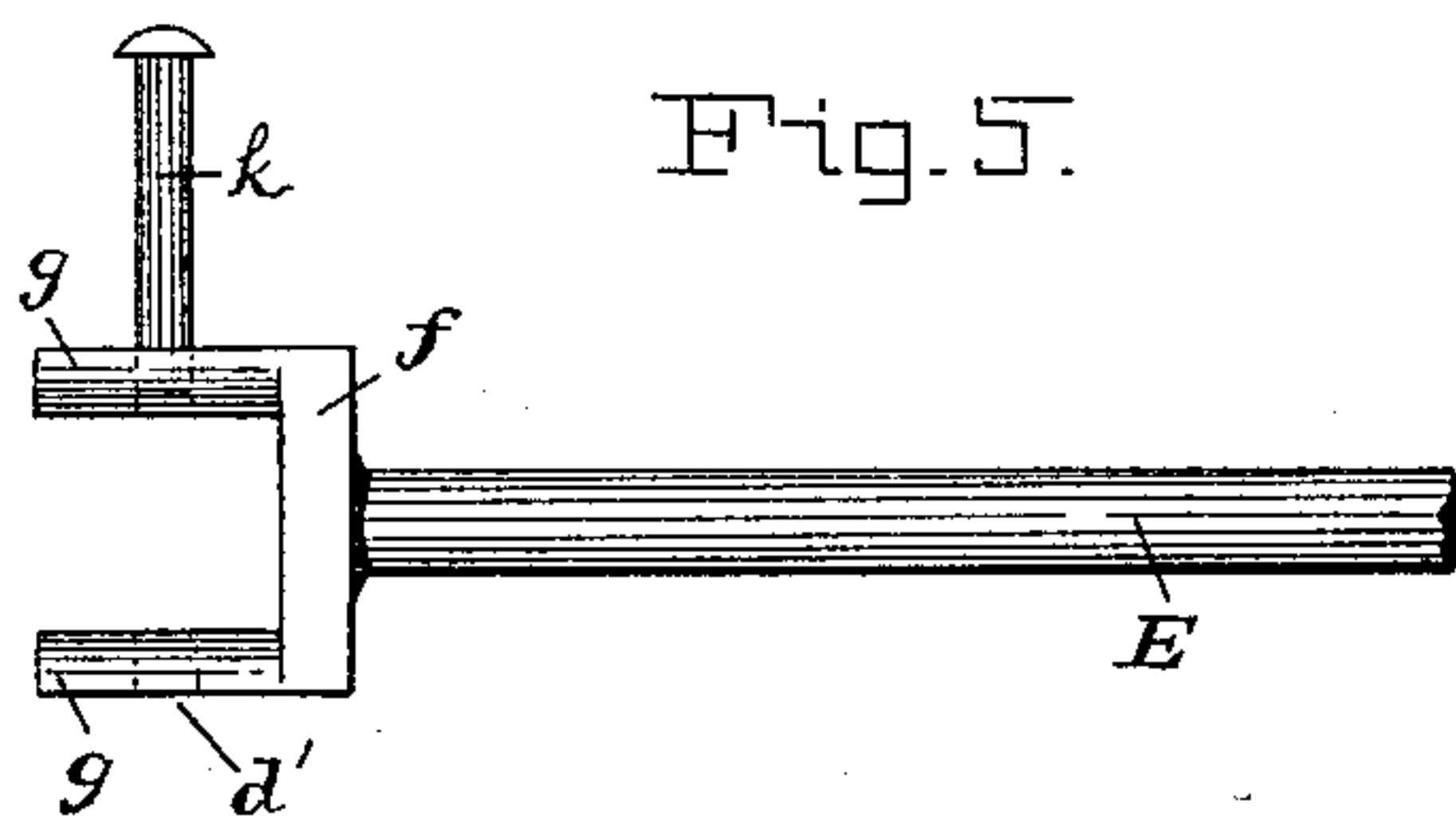
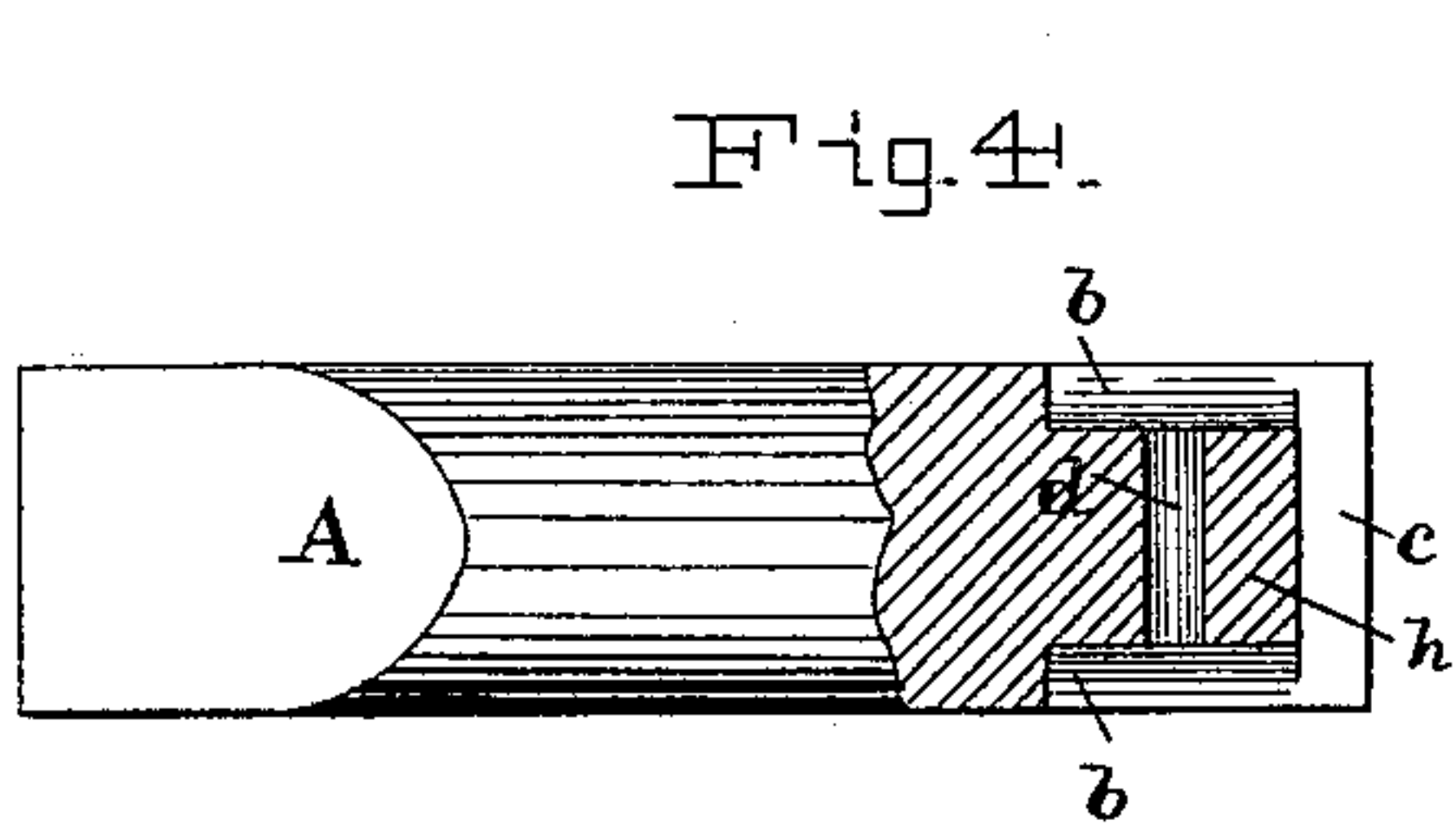
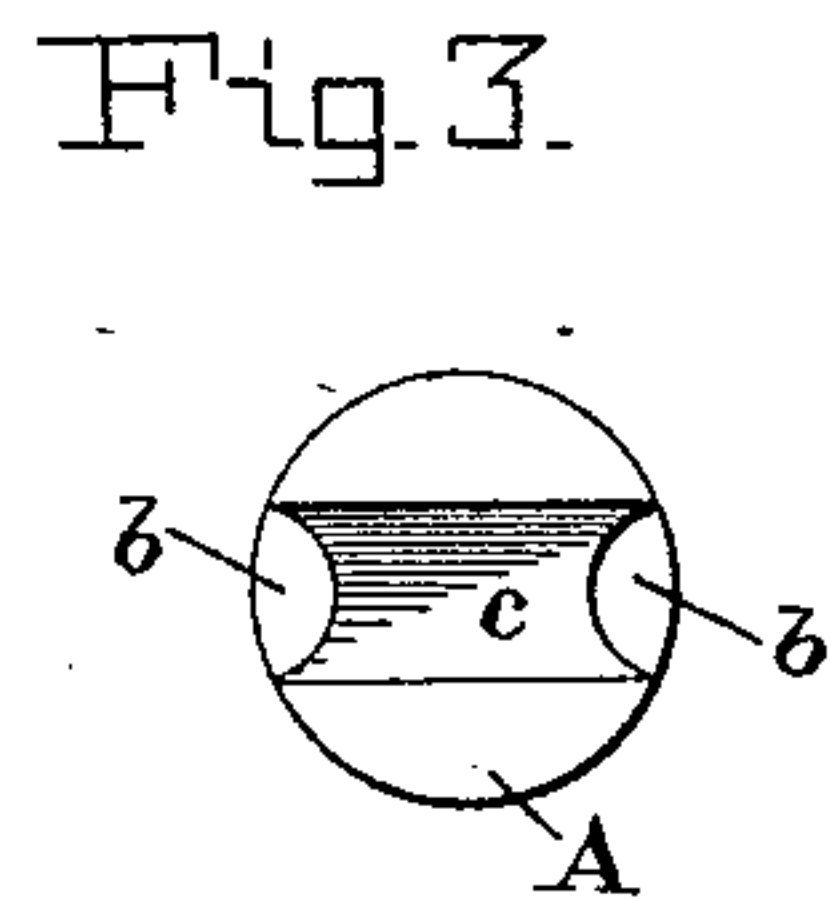
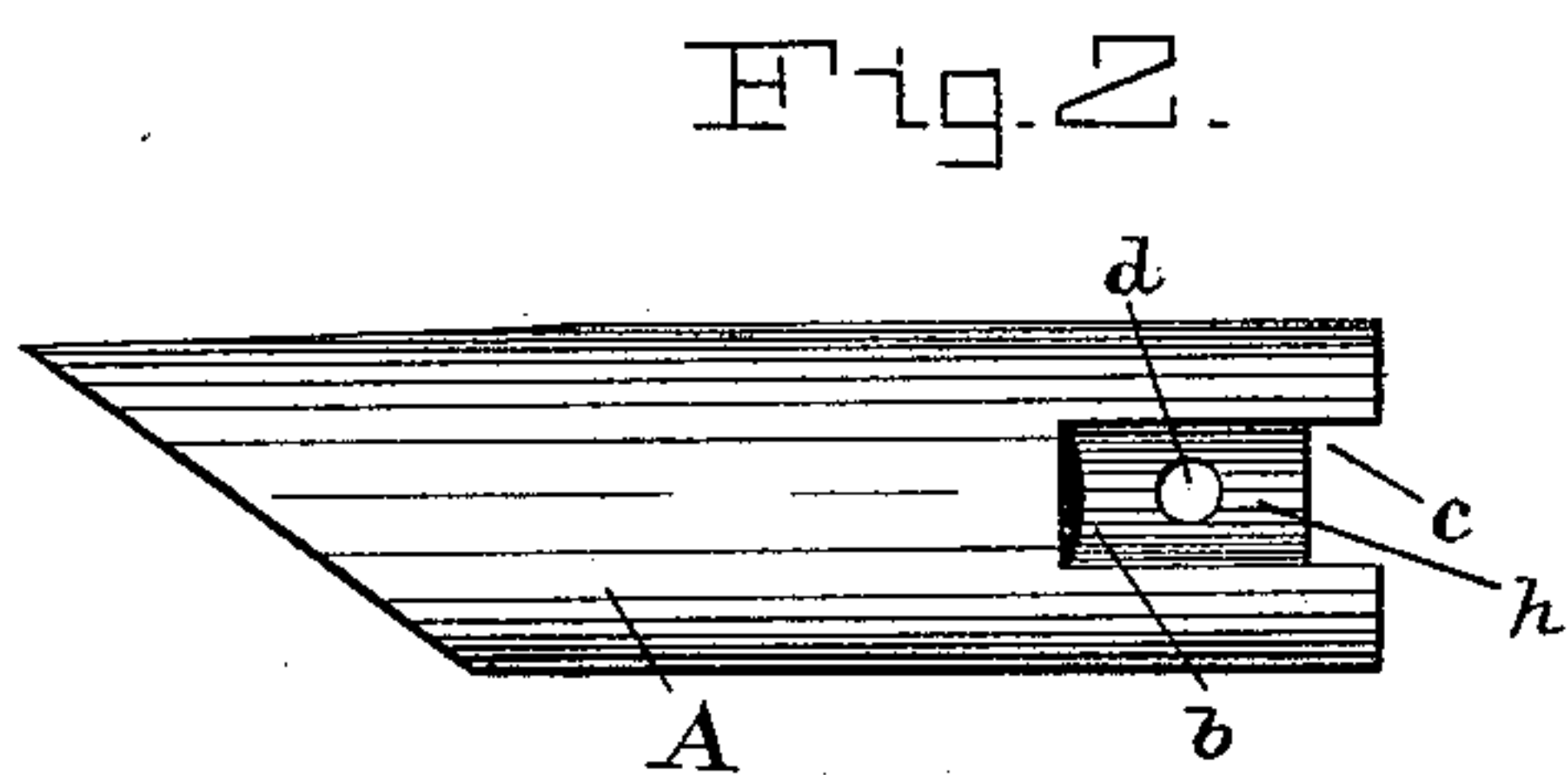
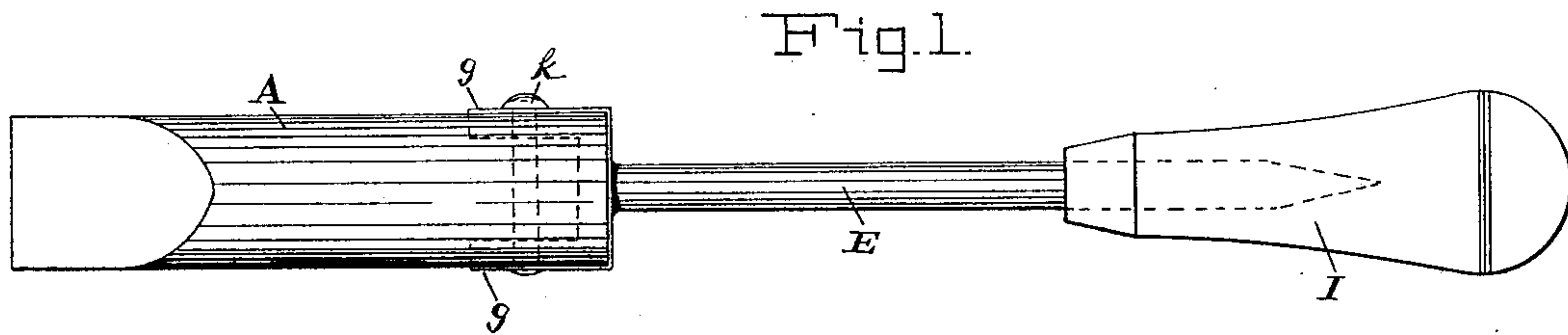
(No Model.)

F. W. SCHULTZ.

SOLDERING IRON.

No. 346,319.

Patented July 27, 1886.



Witnesses:

A. C. Eader

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UNITED STATES PATENT OFFICE.

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:

Be it known 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 copper-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 united.

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, 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 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. 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 malleable cast-iron, and is therefore cheap.

Having described my invention, I claim and desire to secure 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 in the presence of two witnesses.

FREDERICK W. SCHULTZ.

Witnesses:

JOHN E. MORRIS,
JNO. T. MADDOX.