

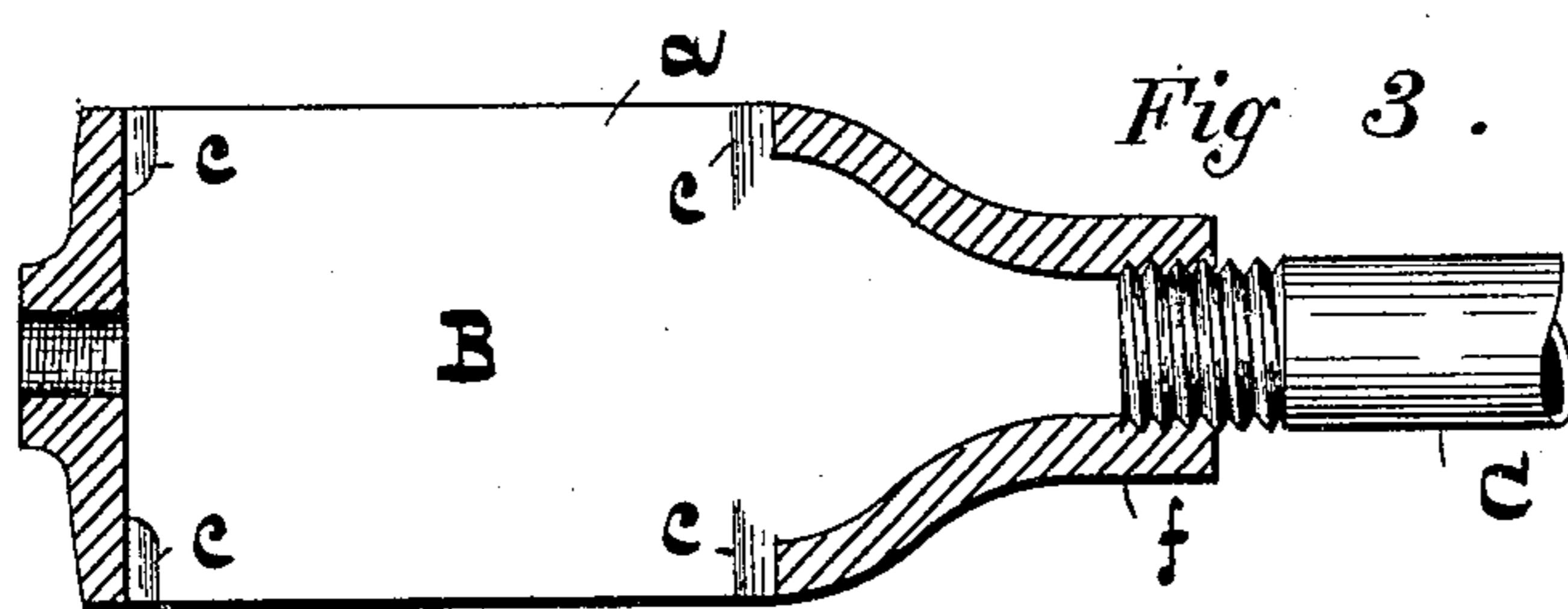
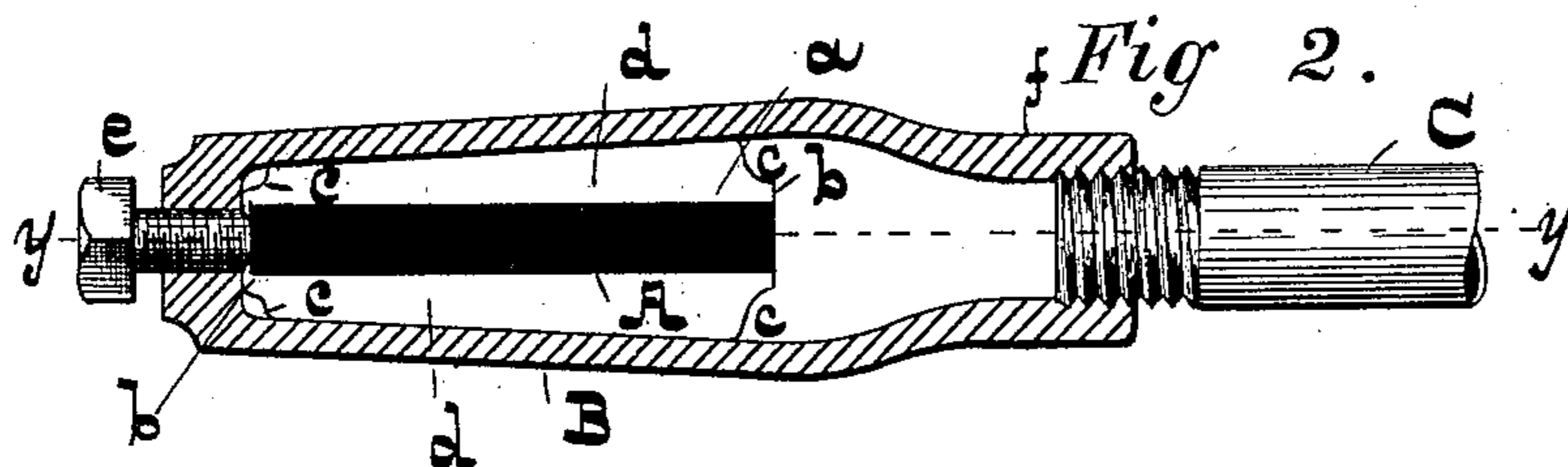
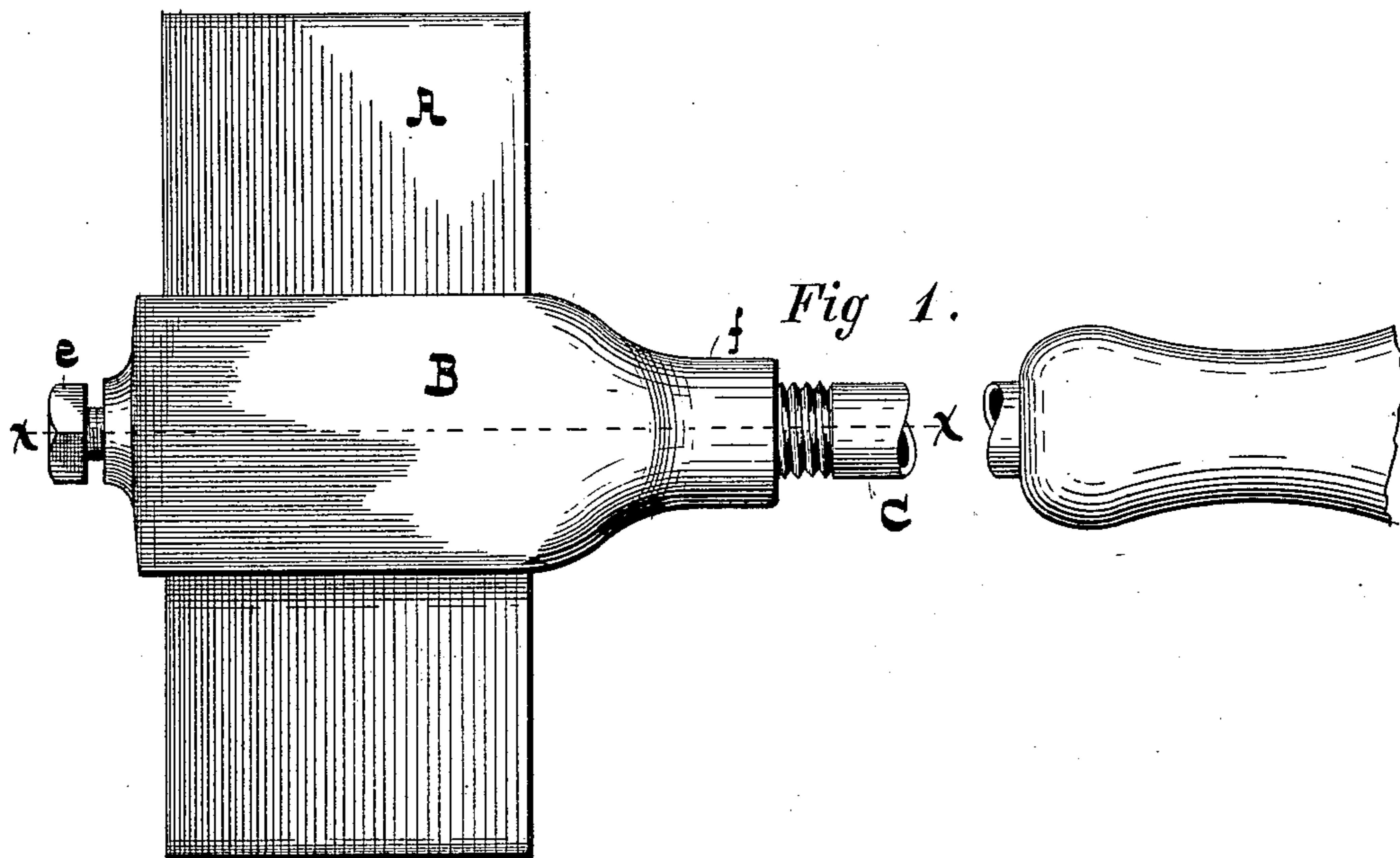
(No Model.)

C. L. WAGANDT.

SOLDERING TOOL.

No. 390,045.

Patented Sept. 25, 1888.



- WITNESSES -

David Fisher  
W. C. Jones

- INVENTOR -

Charles L. Wagandt,  
by W. H. T. Howard,  
Atty.

# UNITED STATES PATENT OFFICE.

CHARLES L. WAGANDT, OF BALTIMORE, MARYLAND.

## SOLDERING-TOOL.

SPECIFICATION forming part of Letters Patent No. 390,045, dated September 25, 1888.

Application filed June 19, 1888. Serial No. 277,519. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES L. WAGANDT, of the city of Baltimore, in the State of Maryland, have invented certain Improvements in Soldering-Tools, of which the following is a specification.

This invention relates to certain improvements in a gas heated soldering-tool to be used in forming long straight seams, and especially the longitudinal seams of sheet-metal cans and similar ware, as will hereinafter fully appear.

In the further description of the said invention which follows reference is made to the accompanying drawings, forming a part hereof, and in which—

Figure 1 is an exterior side view of the improved soldering-tool with a portion of the handle of the same removed. Fig. 2 is a section of Fig. 1 taken on the dotted line *x x*. Fig. 3 is a section of Fig. 2 taken on the dotted line *y y*.

Similar letters of reference indicate similar parts in all the figures.

In the said drawings, A represents a soldering-block, which consists of a straight plate of copper of uniform width and thickness; or, in other words, a piece of ordinary bar-copper of a requisite width and thickness.

B is a holder for the soldering-block, consisting of a casting of suitable width and thickness, provided with an opening, *a*, extending entirely through it, in which the soldering-block A is inserted. This slot is somewhat wider than the thickness of the block A, and at its ends are shallow recesses *b*, formed by the lugs *c*, which are slightly wider than the thickness of the block A, which rests therein. By means of these lugs *c* the block is held centrally in the slot, and spaces *d* are formed at the sides, which are alike, as shown particularly in Fig. 2.

At the outer end of the holder is a set-screw, *e*, which serves to retain the block A in position, and at the other end of the holder is a boss, *f*, into which a pipe, C, serving as a handle, and also as means for conveying gas, or a combination of air and gas, to the soldering-block, is screwed.

In order that the gas flame may pass around, or rather to both sides of the soldering-block, the hole in the boss *f*, extending from the end of the pipe C inward, is flaring or of tapering form, as shown in Figs. 2 and 3. The flame issuing from the spaces *d* toward both ends of the block A insures a regular heating of the same.

It will be seen that in view of both ends of the block being exposed and adapted as working-edges the tool is reversible.

The soldering-tool, as described, is cheap and simple in construction and effective in operation, and it may be made much lighter in weight than other tools of the same class now in use.

I claim as my invention—

In a soldering-tool for the purpose described, the combination of a soldering-block of uniform width and thickness, with a soldering-edge at either end, and a gas supplied holder, having an opening of greater width than the thickness of the said block, extending entirely through it, with lugs at its ends, whereby the said opening is reduced in width, so as to fit the said block and hold the same centrally of the said opening, and thereby form passages for the escape of flame from the upper and lower faces of the holder and toward both exposed ends of the soldering-block, substantially as and for the purpose specified.

CHARLES L. WAGANDT.

Witnesses:

H. M. FITZHUGH,  
WM. T. HOWARD.