

No Model.)

M. GREER, Jr.  
SOLDERING TWEEZERS.

No. 420,874.

Patented Feb. 4, 1890.

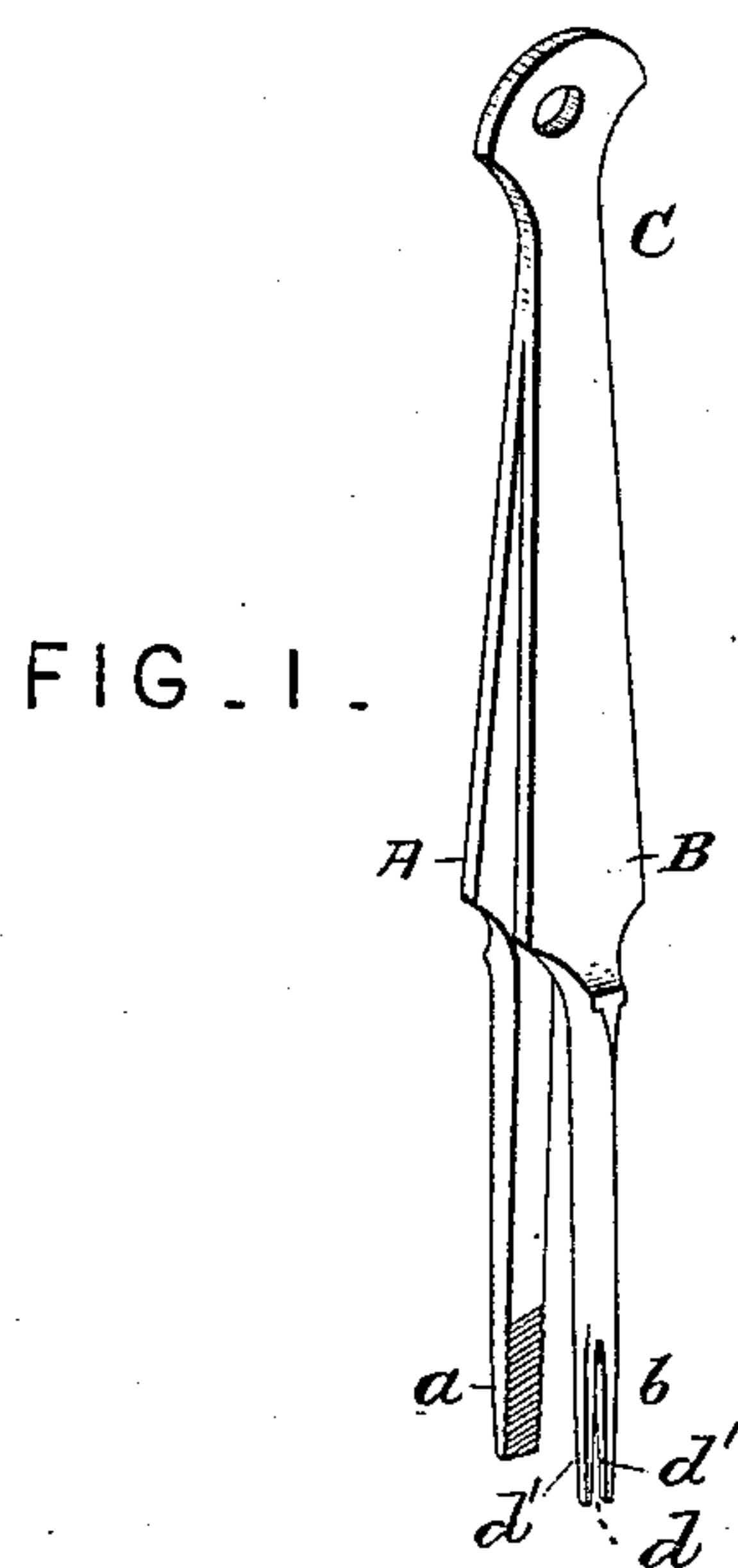


FIG. 1.

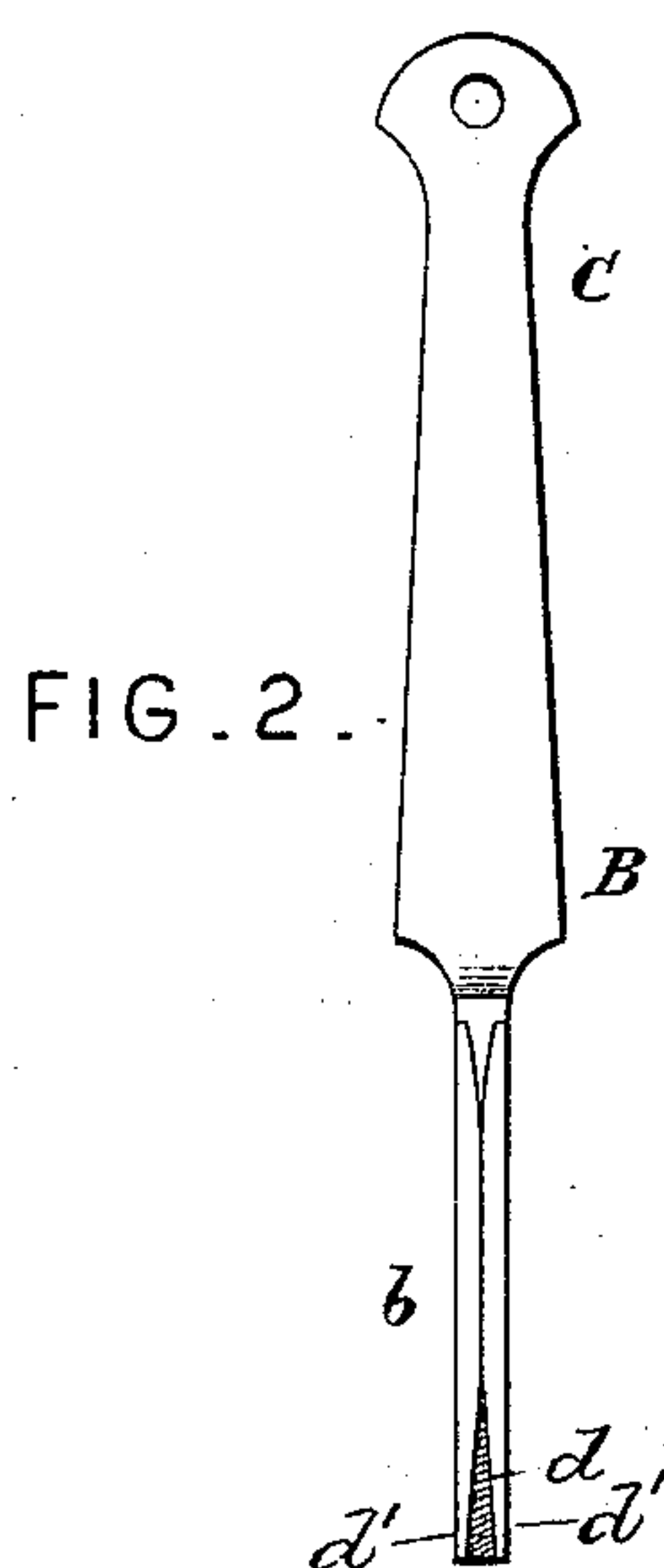


FIG. 2.

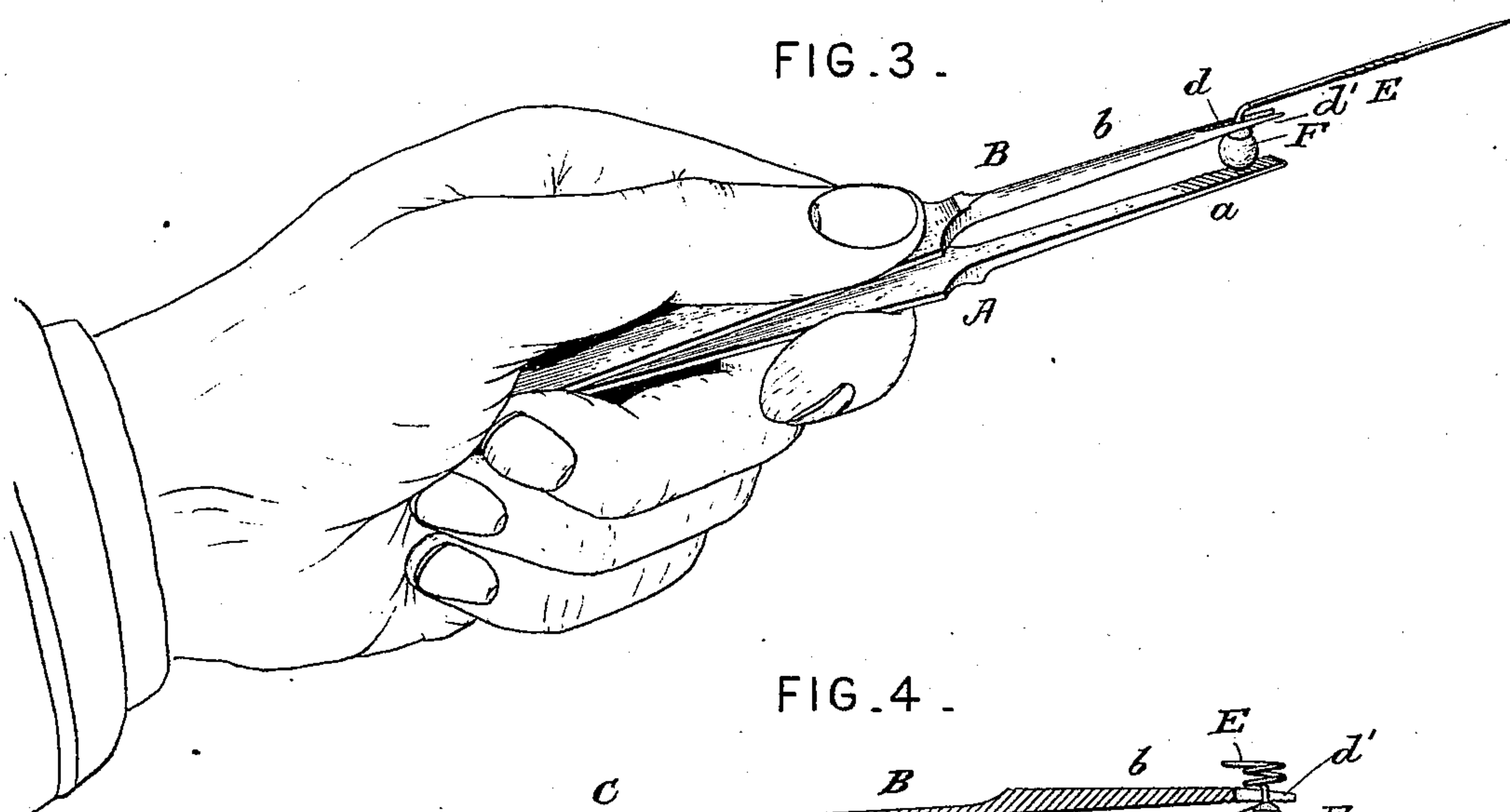


FIG. 3.

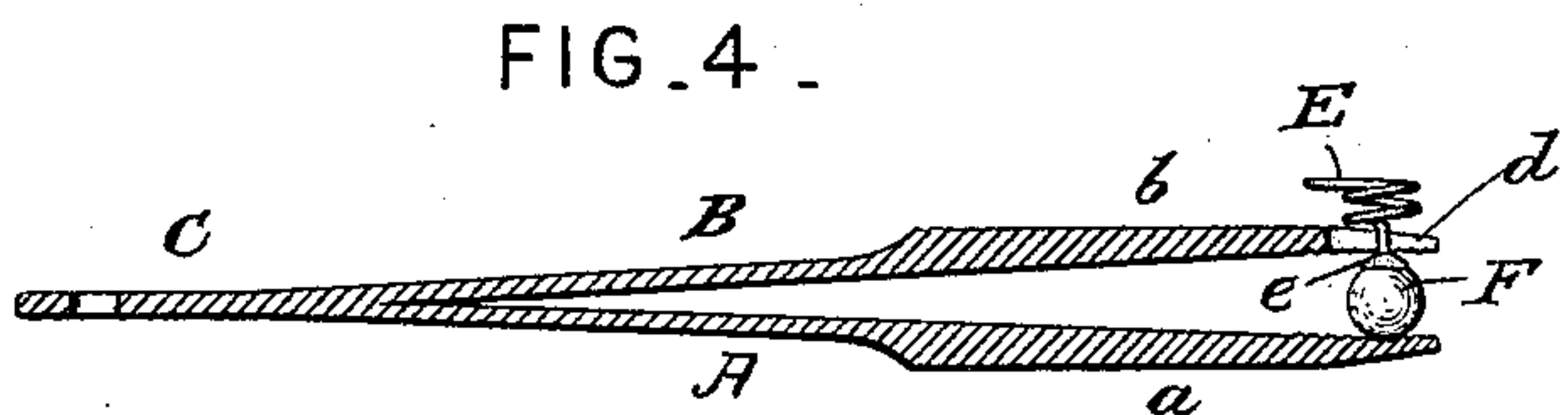


FIG. 4.

Attest:  
Geo. T. Smallwood.  
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By Knight Bros  
Attys

# UNITED STATES PATENT OFFICE.

MOSES GREER, JR., OF KNOXVILLE, TENNESSEE.

## SOLDERING-TWEEZERS.

SPECIFICATION forming part of Letters Patent No. 420,874, dated February 4, 1890.

Application filed May 7, 1889. Serial No. 309,849. (No model.)

*To all whom it may concern:*

Be it known that I, MOSES GREER, Jr., a citizen of the United States, and a resident of Knoxville, in the county of Knox and State of Tennessee, have invented certain new and useful Improvements in Soldering-Tweezers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to  
10 which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved soldering-tweezers. Fig. 2 is a side view of the same. Fig. 3 is a perspective view showing the manner of holding the parts or articles to be soldered, and Fig. 4 is a longitudinal sectional view also illustrating the  
20 manner of using the device.

Like letters of reference denote corresponding parts in all the figures.

This invention relates to tweezers for the use of jewelers, watch-makers, and similar  
25 trades in which fine and delicate handling and soldering of small parts or objects is to be done; and it consists in the improved construction of a pair of soldering-tweezers, which will be hereinafter more fully described, and  
30 particularly pointed out in the claim.

In the accompanying drawings, the letters A and B designate the two legs of my improved tweezers, connected, as usual, at the inner end C, and having sufficient spring to  
35 keep their outer ends or jaws *a* and *b* apart from each other when not in use. Both of these jaws are serrated or roughened on their inner sides, facing each other in the usual manner; but one of them *b* is bifurcated, providing a narrow wedge-shaped slot or opening *d* and prongs *d'*. This slot or opening is  
40 adapted to receive and the prongs formed thereby to hold the stem or shank of the fastening for the pin, stud, or other object which

is to be soldered to the fastening, as will be  
seen by reference to Figs. 3 and 4 of the draw- 45  
ings, in which the letter E denotes a fasten-  
ing to which the ornamental head F is to be  
soldered. The latter, which may be of course  
of any desired shape (a sphere is shown in 50  
the drawings) or suitable material, is held be-  
tween the serrated jaws of the tweezers, in  
which position it will bear against the plate  
*e* upon the pin to which it is to be soldered.  
The wedge shape of the slot provides conver- 55  
ging walls to the prongs, which bite firmly that  
part of the stem or shank of the fastening  
which is inserted in the opening, so as to hold  
or wedge it securely and fixedly in place dur-  
ing the process of soldering the head F upon 60  
plate *e*. Other articles which permit of it are  
held and treated in the same way, and in this  
manner small articles of jewelry or the parts  
of watch-movements may be soldered or  
brazed neatly and expeditiously. The open- 65  
ing *d* being of wedge shape, shanks or stems  
of various diameters can be securely held be-  
tween the converging walls of the prongs *d'*.  
At the same time this device may be used in  
the same manner and for the same purposes 70  
as an ordinary pair of tweezers in picking up  
or handling small objects.

Having thus described my invention, the following is what I claim as new therein and  
desire to secure by Letters Patent: 75

Soldering-tweezers constructed with a pair  
of legs one of which is provided with an elon-  
gated tapering slot for receiving and holding  
stems of different diameters in opposition to  
the article held between said legs, substan- 80  
tially as described.

In testimony that I claim the foregoing as  
my own I have hereunto affixed my signature  
in presence of two witnesses.

MOSES GREER, JR.

Witnesses:

WM. P. GRIFFIN,  
WM. STONE FOWLER.