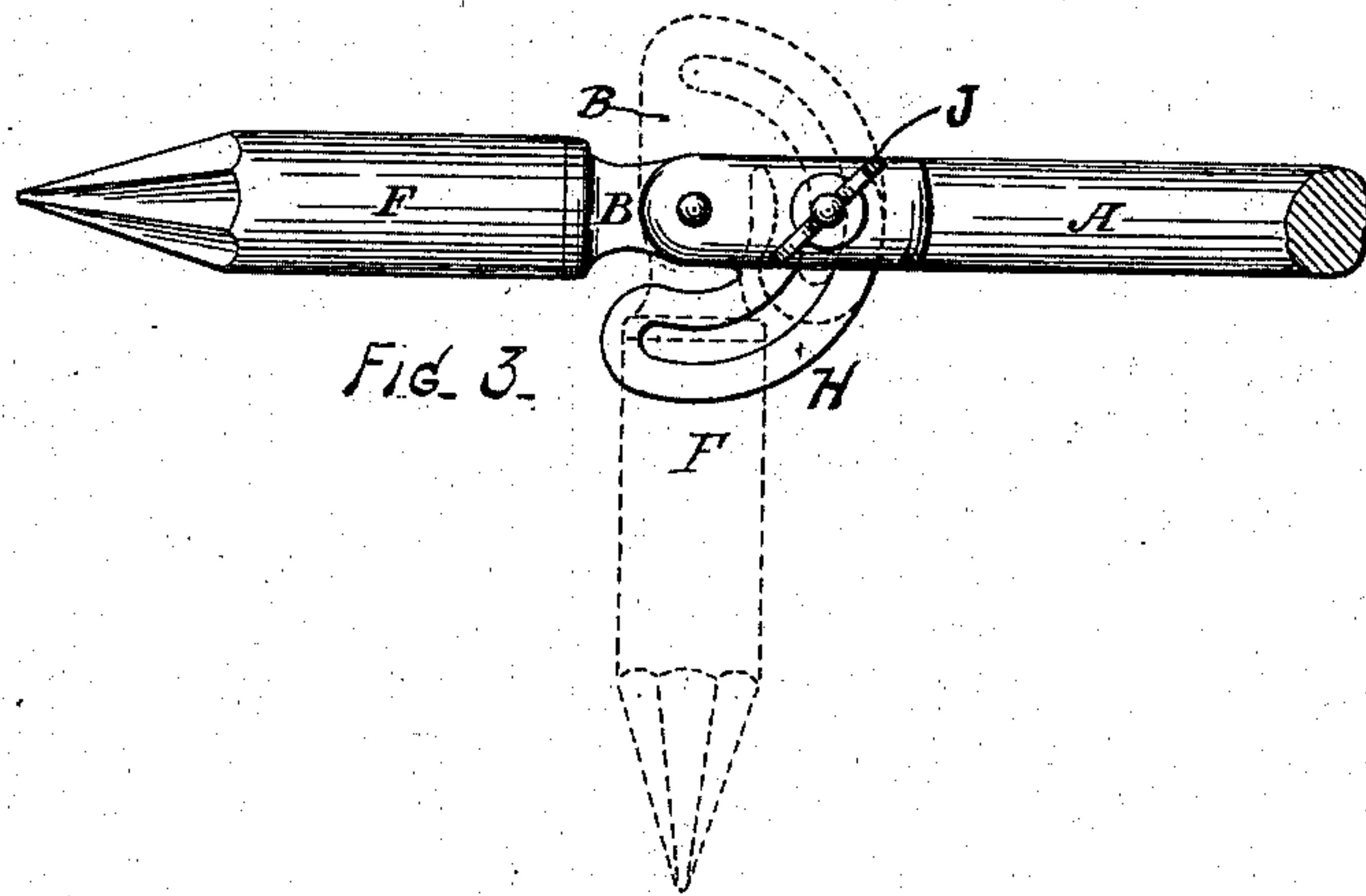
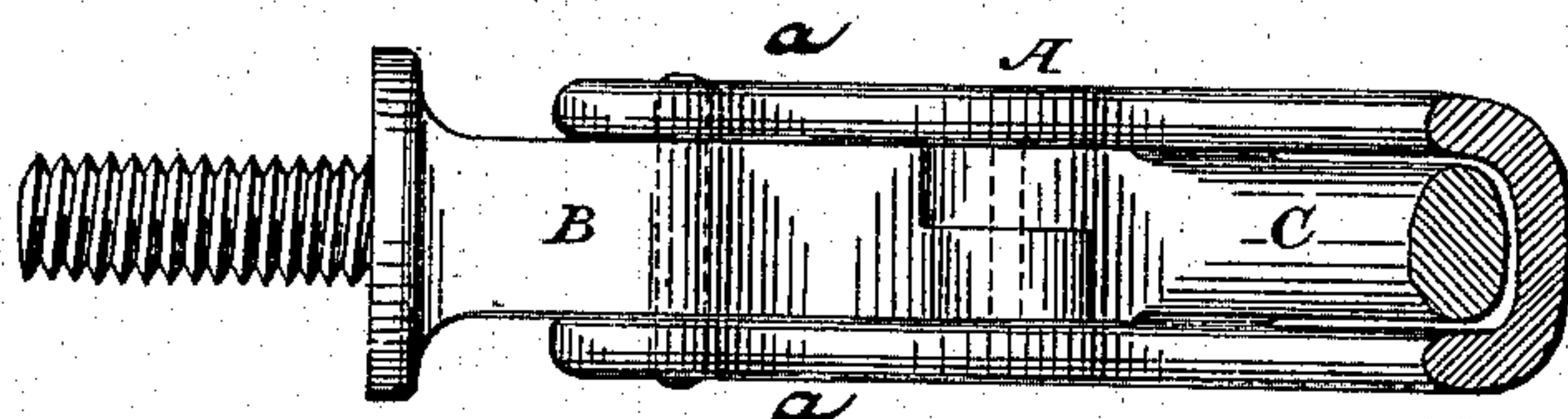
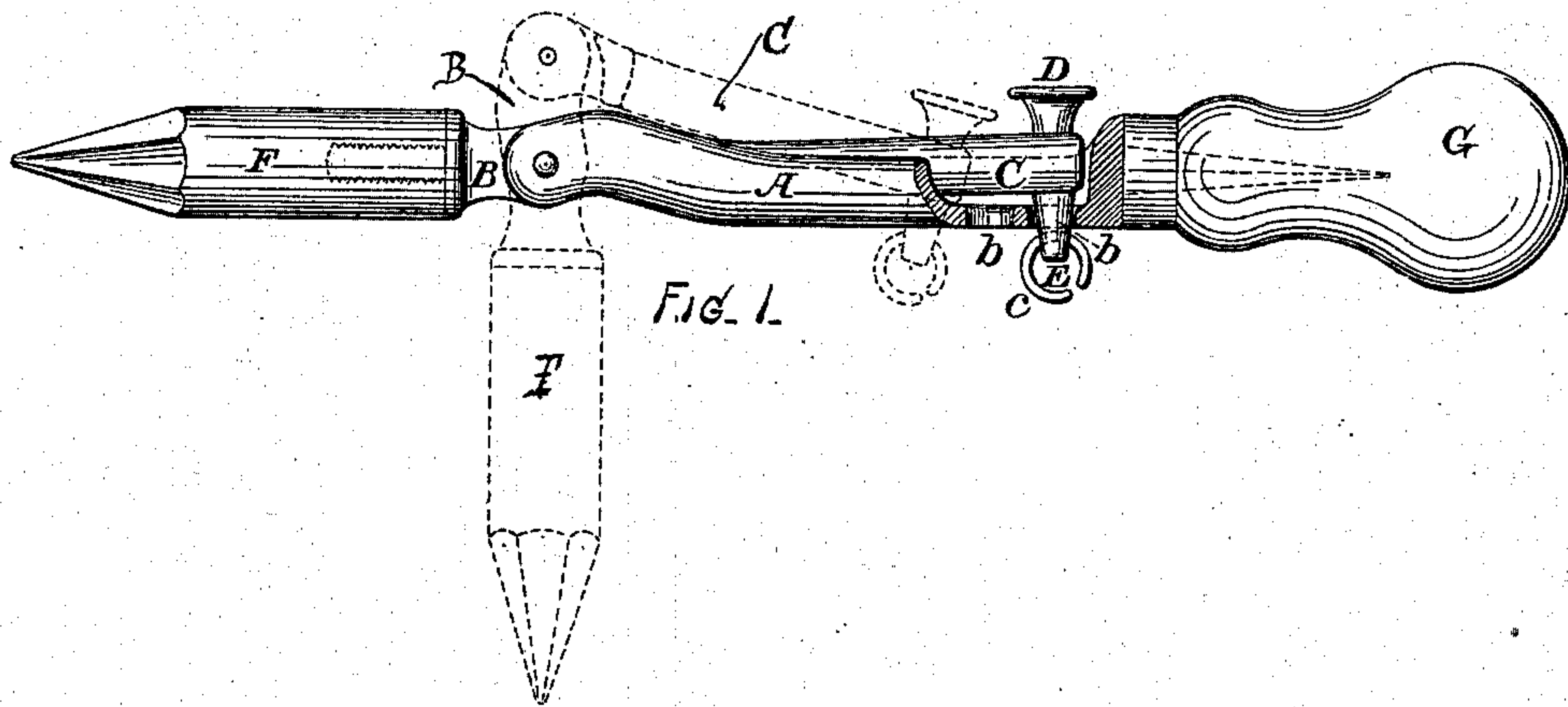


(No Model.)

S. WOODHEAD.  
SOLDERING COPPER.

No. 249,215.

Patented Nov. 8, 1881.



ATTEST-

Joseph Seeberg  
James H. Starbuck.

INVENTOR-

Samuel Woodhead.

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ATTY-



# UNITED STATES PATENT OFFICE.

SAMUEL WOODHEAD, OF WEST TROY, NEW YORK.

## SOLDERING-COPPER.

SPECIFICATION forming part of Letters Patent No. 249,215, dated November 8, 1881.

Application filed July 22, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL WOODHEAD, of West Troy, in the county of Albany and State of New York, have invented a new and  
5 useful Improvement in Soldering-Coppers, of which the following is a specification.

This invention relates to the implements used by tinmiths during the operation commonly known as "soldering;" and it consists in providing said implements with adjustable parts,  
10 hereinafter more fully described, so that the copper points thereon may be set at various angles with the shanks or handles, my object being to enable the operator to reach with  
15 greater facility the more difficult and irregular portions of the work.

In the drawings, Figure 1 is a general view of my improved device, shown partly in section. Fig. 2 is a detail view of the forward  
20 end, with copper point removed; and Fig. 3 shows modification.

Similar letters of reference in each indicate corresponding parts.

A represents a grooved shank or body, fitted  
25 to receive head-block B, pivoted between jaws *a a* at forward end of same, and the rod or tongue C, hinged to said block, the tongue being provided at extremity with knob D, for operating the same, and with tapering projection or peg E, fitted to enter holes *b* in bottom of shank, the peg also being perforated to receive ring *c*. The head-block is provided  
30 with a threaded extension, upon which the copper point F, correspondingly threaded, may be screwed, the shank also having a projection at rear end tapered after the usual fashion to receive wooden handle G.

The operation of my improved device is as follows: When desirable to adjust the point  
40 for the object stated, by first removing the ring from peg the hinged tongue may be shifted from its former position by means of the knob and the peg reset in proper hole in shank to give the required angle to the head-block, and

consequently to the said point in connection  
45 therewith, the ring being then replaced in peg to prevent the parts from being disarranged while the implement is in use, this adjustment being shown by dotted lines in Fig. 1.

A continuous slot may be substituted for  
50 the holes in shank, and a set-screw for the ring and peg, if found more desirable; or the hinged tongue may be dispensed with and an adjustable semicircular arc, H, used instead, to operate substantially in the same manner,  
55 which may be integral with and pivoted in connection with the head-block B between jaws forming forked or U-shaped extension of shank A, the remainder of which in this method of applying the invention may be the  
60 ordinary round bar or rod generally used for shank in soldering implements, said arc H being slotted so as to work freely over the shank of a set-screw, J, between the head of which  
65 on one side, and inner surface of jaw on the other, it is impinged and held securely when set in the desired position, and the adjusting-nut is screwed up tightly against outer surface of same jaw, all of which parts (the rear  
70 end with handle being broken away) are shown by the longitudinal side view in Fig. 3, the dotted lines therein also indicating a supposed adjustment.

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

1. The combination of the shank A, point F, pivoted head-block B, and means for securing said block at different angles to the shank, substantially as shown, for the objects  
75 set forth.

2. In combination with a point, the perforated shank and adjustable block and tongue, the knob D, peg E, and ring *c*, substantially  
80 as and for the purpose specified.

SAML. WOODHEAD.

Witnesses:

H. LISLE FLEMING,  
S. K. JEFFERSON.