

(No Model.)

L. C. BUETTNER.
LACING STUD SET OR PUNCH.

No. 263,110.

Patented Aug. 22, 1882.

FIG. 1.

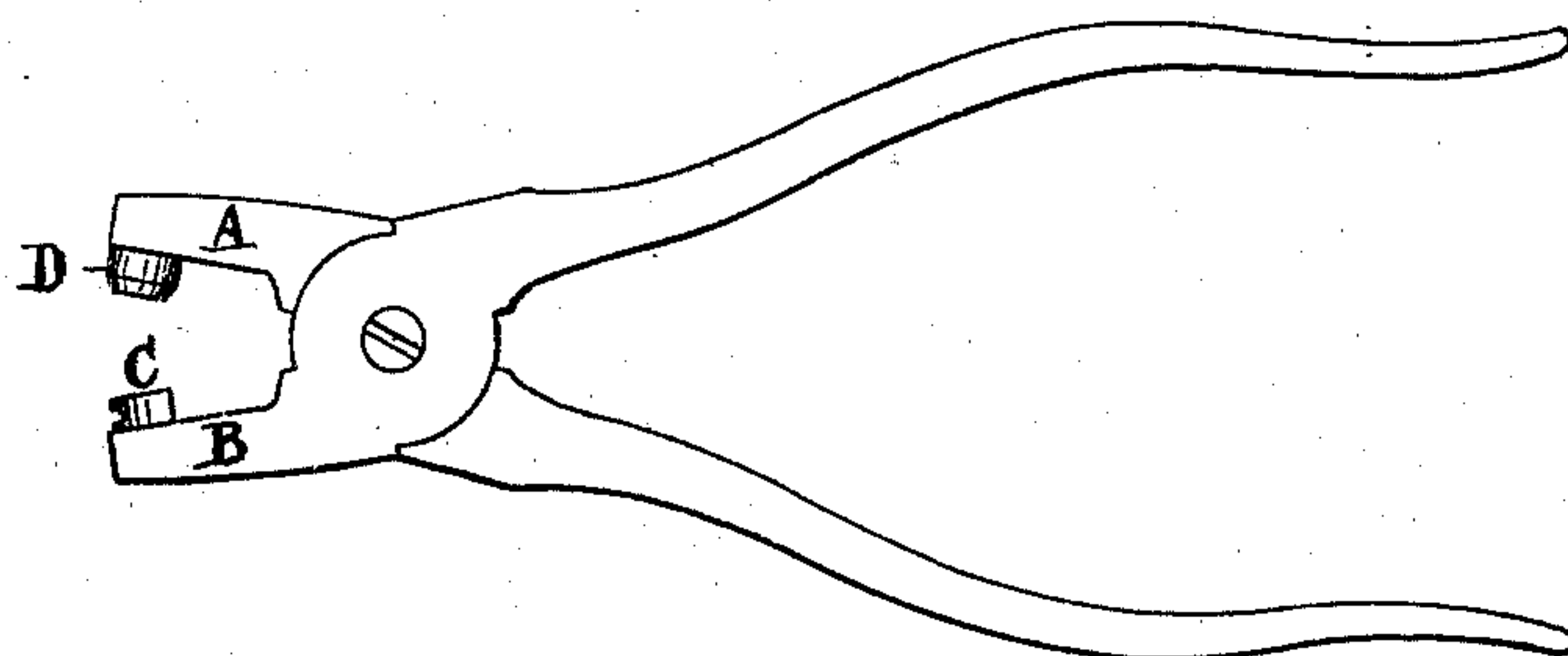


FIG. 2.

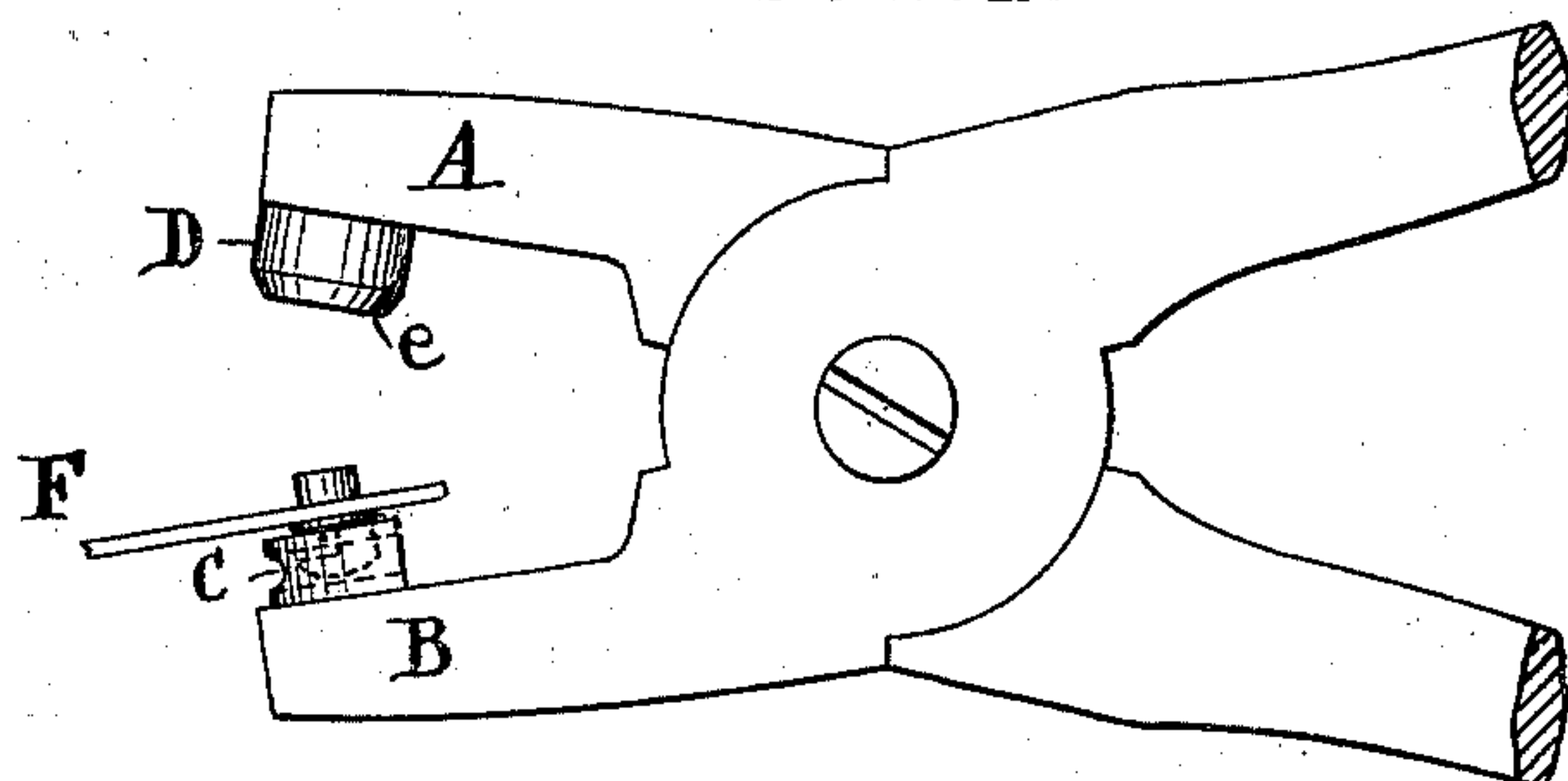


FIG. 3.

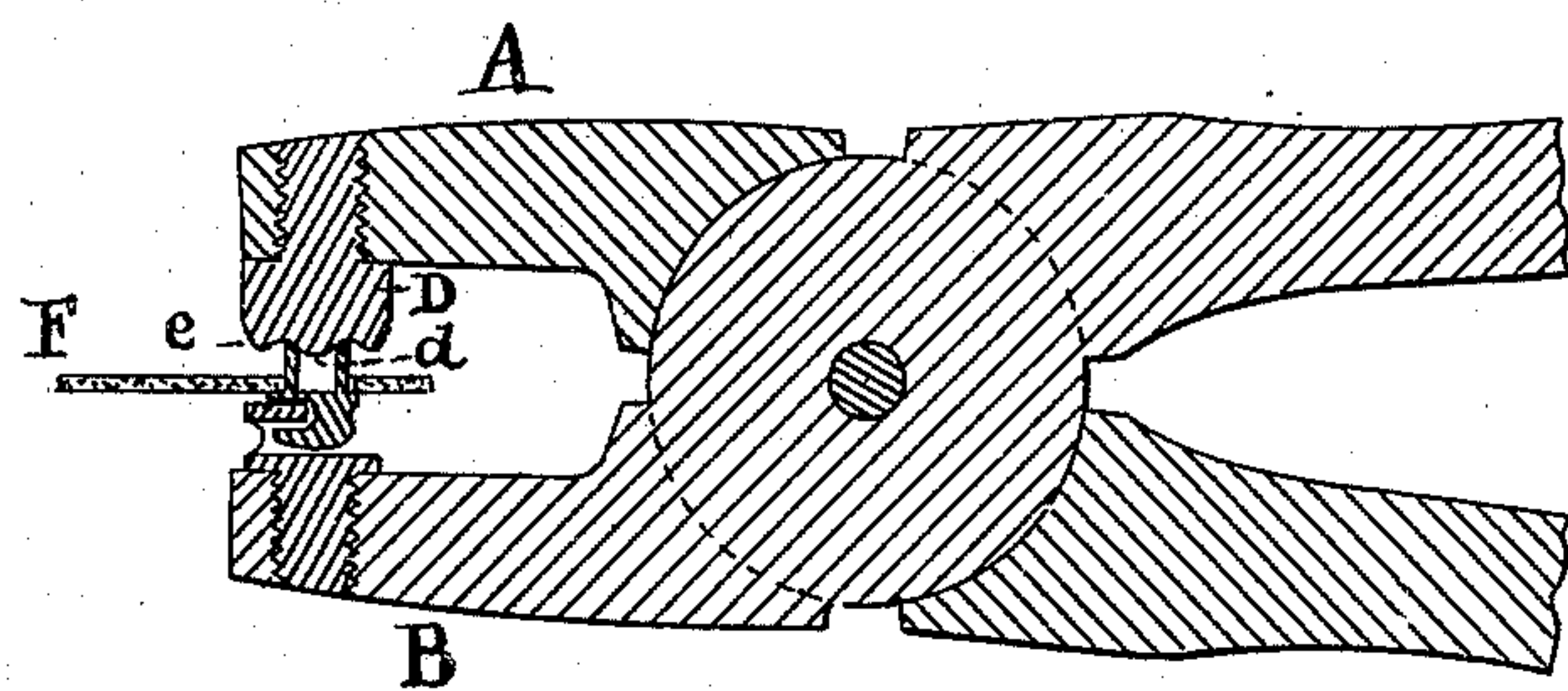


FIG. 4.

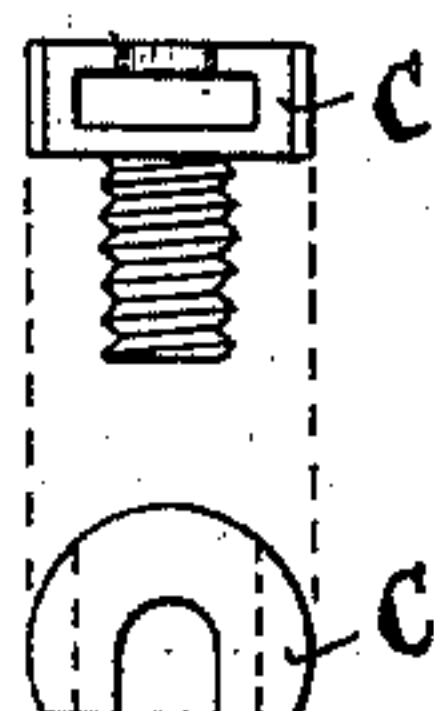


FIG. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

LOUIS C. BUETTNER, OF BOSTON, MASSACHUSETTS.

LACING-STUD SET OR PUNCH.

SPECIFICATION forming part of Letters Patent No. 263,110, dated August 22, 1882.

Application filed July 20, 1882. (No model.)

To all whom it may concern:

Be it known that I, LOUIS C. BUETTNER, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful
5 Improvement in Lacing-Stud Sets or Punches, of which the following is a specification.

My invention relates to an improvement in instruments for affixing eyelet-hooks to boots and shoes in which lacing is used, with especial reference to an instrument for which a patent was granted to me January 4, 1876, and numbered 171,770. In that instrument a pointed punch of the usual construction is used in connection with a lug having a slot
10 passing horizontally from front to rear. A change in the construction of the eyelet-hooks used as above stated necessitates a change in the construction of the punch in order to render the same available in properly securing the
20 eyelet-hook to the boot or shoe. In the eyelet-hooks for which the instrument formerly patented to me, as above mentioned, was adapted the hole extended entirely through the shank, while in the present construction of
25 said eyelet-hooks the inner end of such hole is closed.

My present invention consists in making the punch, or portion that serves as a punch, with a rounded teat or projection surrounded by
30 an outer rim, which construction serves to spread open the end of the shank of the eyelet-hook and curve over the end thus spread, by which it is more firmly held in the leather and a neater job attained.

35 Referring to the drawings, Figure 1 represents a pair of pliers to which my invention is applied. Fig. 2 represents the jaws of the pliers open and on an enlarged scale. Fig. 3 is a section of the same with the jaws closed.

Fig. 4 represents in detail the lug that holds 40 the eyelet-hook, and Fig. 5 is a section of my improved punch.

To the upper jaw, A, is a block, D, in the central part of the face of which is a rounded projection or teat, *d*, as shown in Figs. 3 and 45 5, and surrounded by a rim, *e*, showing a curved space between the two. The outer edge of the block D outside of the rim *e* is beveled, as shown. The lug C, attached to the opposite jaw, B, is provided with a slot 50 from front to rear, into which the eyelet-hook is inserted, and is substantially the same as described and shown in the patent above referred to.

In operation, the eyelet-hook being inserted 55 in the slotted lug C and the leather F properly adjusted, the block D is brought down, when the projection or teat *d* forces open the shank of the eyelet-hook, thus spreading the edges, which are turned up in the curved space 60 surrounding the teat and are firmly secured to the leather by the rim *e*.

What I claim as my invention is—

1. In an instrument for affixing eyelet-hooks to boots and shoes, a block or punch, D, constructed with a central teat, *d*, and a rim, *e*, 65 substantially as and for the purpose set forth.

2. The combination, with the punch D, constructed as described, of the slotted lug C, attached respectively to the jaws A B, substantially as shown and described. 70

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LOUIS C. BUETTNER.

Witnesses:

JOS. H. ADAMS,
E. PLANTA.