

(No Model.)

B. C. SMITH.
CONDUCTOR'S PUNCH.

No. 313,027.

Patented Feb. 24, 1885.

Fig. 5.

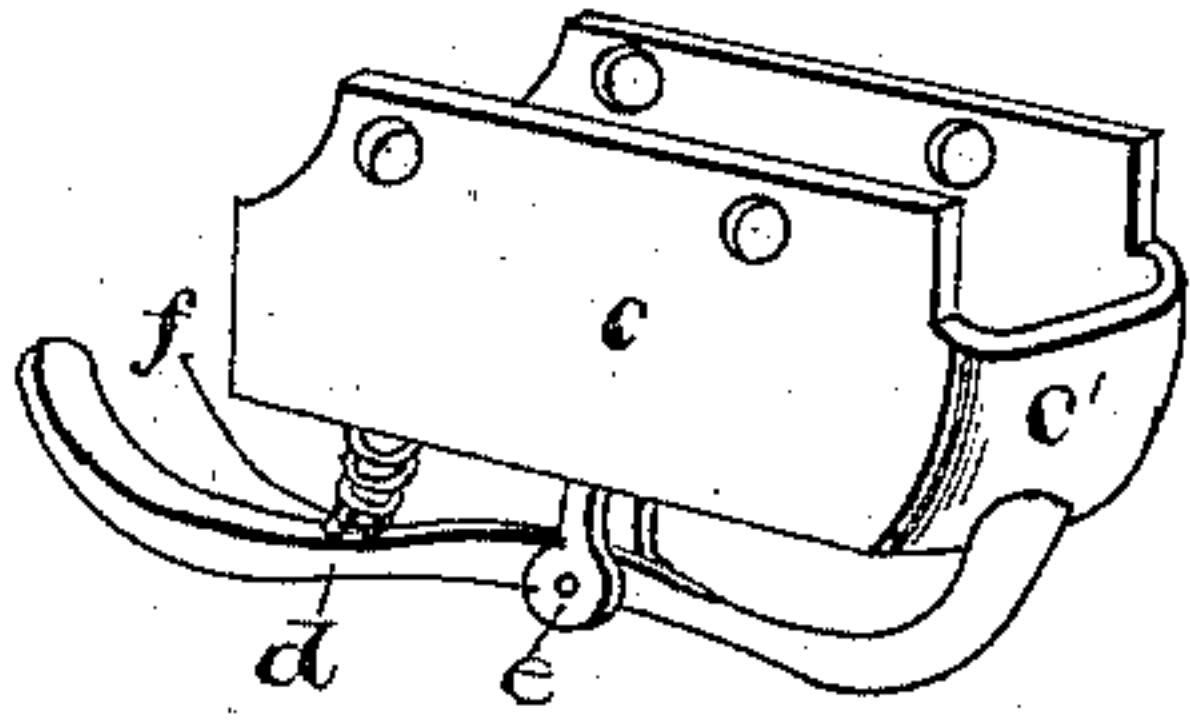


Fig. 3.

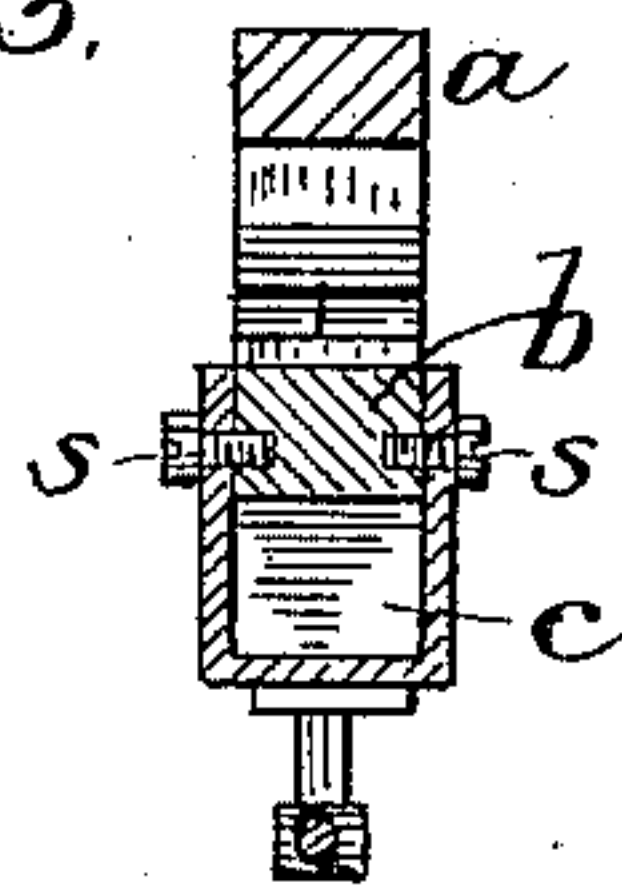


Fig. 1.

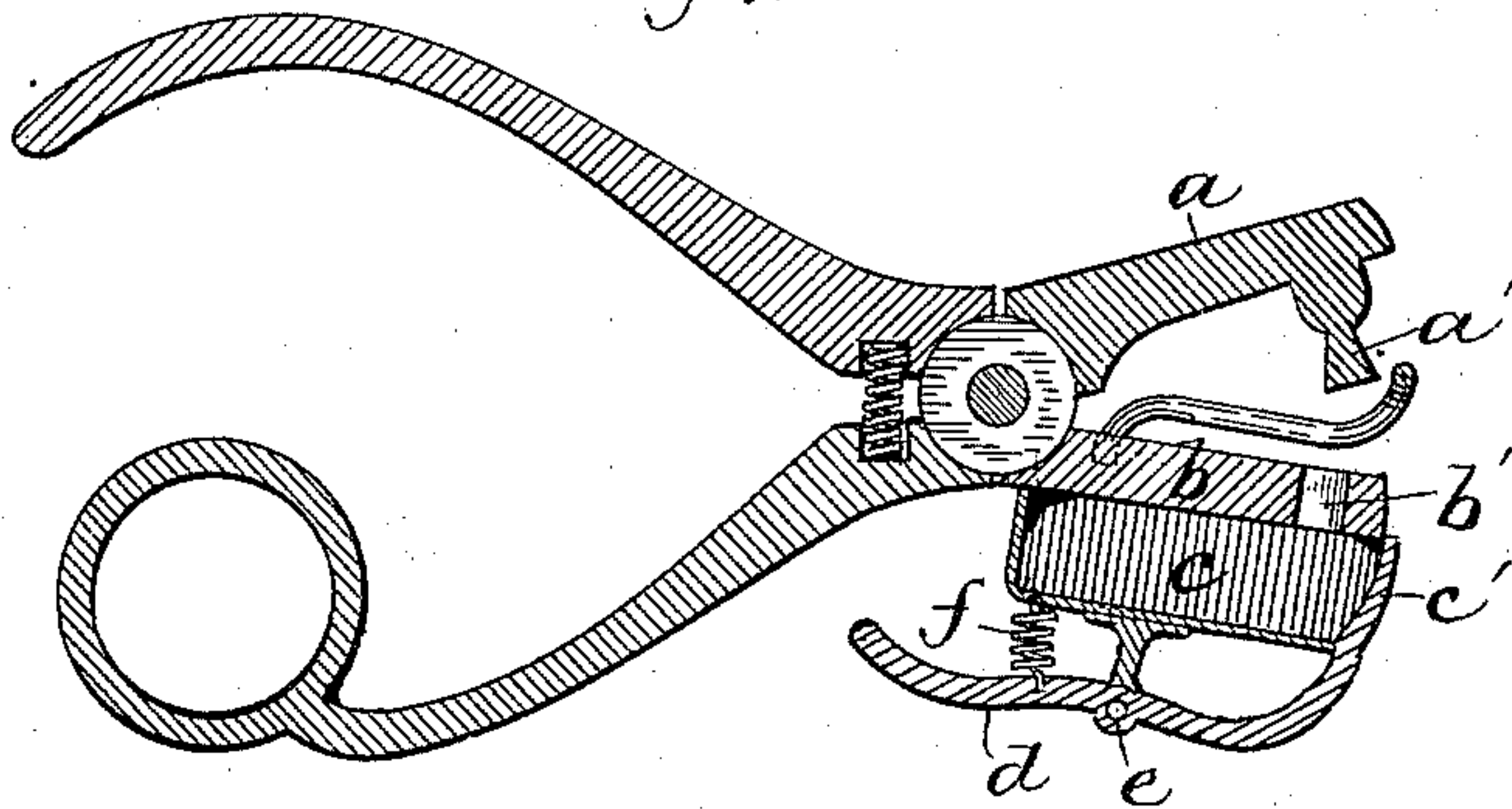


Fig. 2.

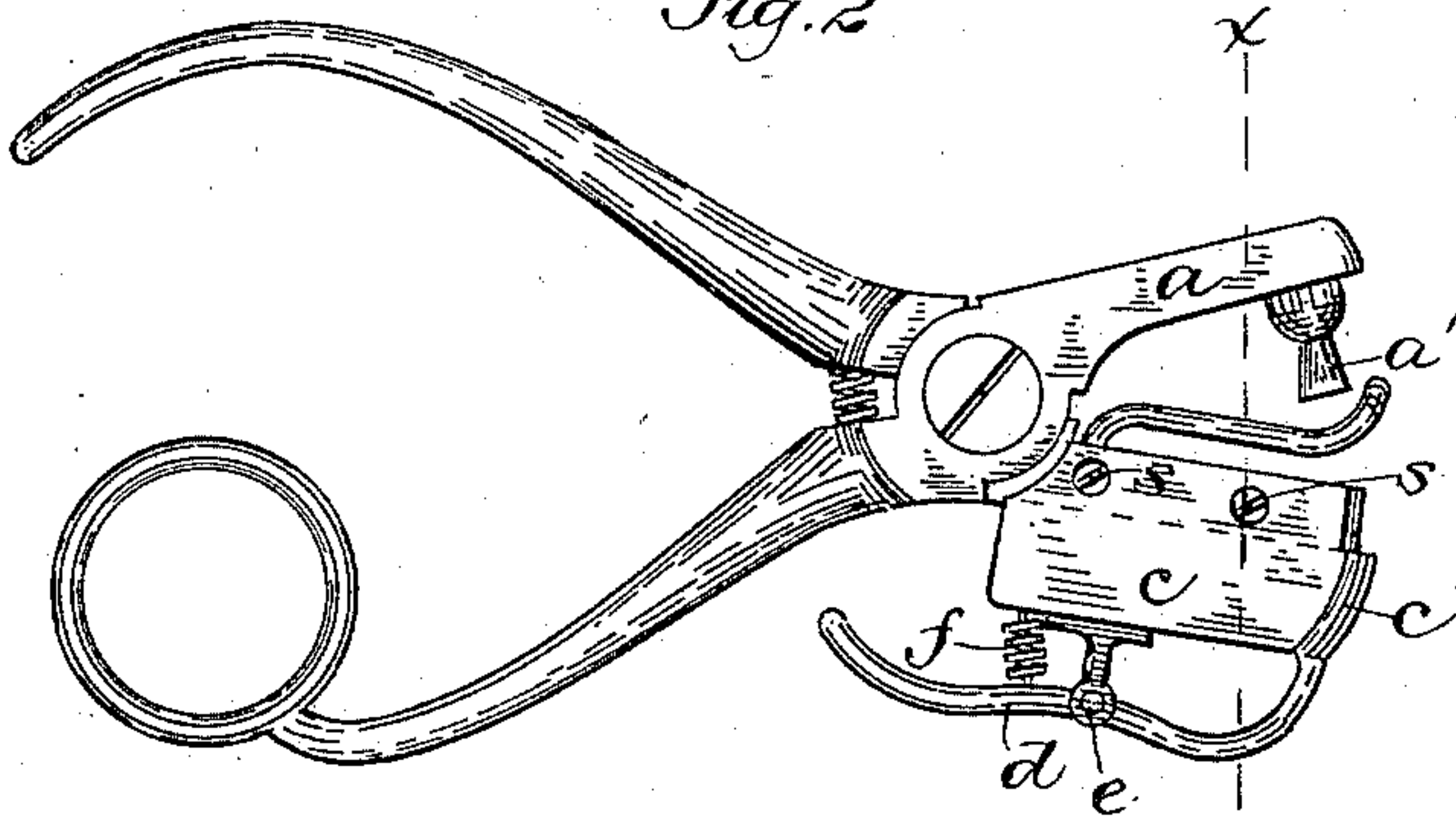
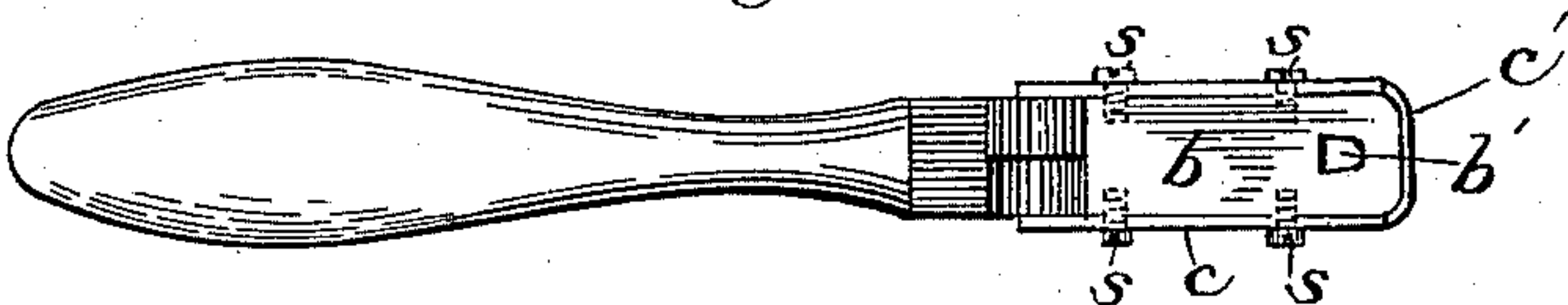


Fig. 4.



Witnesses.

R. J. Powers

W. Keith Armstrong

Inventor.

B. C. Smith
by M. H. Brown
Att'y

UNITED STATES PATENT OFFICE.

BENJAMIN C. SMITH, OF SALEM, ASSIGNOR OF ONE-FOURTH TO JAMES G. CRAWFORD, OF BOSTON, MASSACHUSETTS.

CONDUCTOR'S PUNCH.

SPECIFICATION forming part of Letters Patent No. 313,027, dated February 24, 1885.

Application filed November 13, 1884. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN C. SMITH, of Salem, in the county of Essex and State of Massachusetts, have invented certain Improvements in Conductors' Punches, of which the following is a specification.

This invention has for its object to prevent passengers on railroad-trains and other public conveyances from fraudulently reinserting in their passage-tickets the cuttings removed therefrom by the conductor's punch, the tickets being thus made to appear as if they had not been punched.

The invention consists in a conductor's punch provided with a receptacle which receives the cuttings removed by the punch, and retains them until the conductor discharges them, a spring-closed end or side being provided whereby the receptacle may be emptied, as I will now proceed to describe.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a longitudinal section of a punch provided with my improvement. Fig. 2 represents a side elevation of the same. Fig. 3 represents a section on line *xx*, Fig. 2. Fig. 4 represents a top view of the lower jaw of the punch. Fig. 5 represents a perspective view of the box or receptacle detached.

The same letters of reference indicate the same parts in all the figures.

In the drawings, *a b* represent the jaws of an ordinary conductor's punch, the jaw *a* having the male punching-die *a'*, and the jaw *b* the female punching-die *b'*.

In carrying out my invention I attach to the lower jaw, *b*, by means of screws *s s*, or otherwise, a box or receptacle, *c*, arranged to receive the cuttings that fall through the die *b'*. The box *c* is tightly closed, excepting at one end or side, where it is provided with a movable end or side, *c'*, to which is attached a lever, *d*, extending backwardly under the jaw *b*, and pivoted, at *e*, to a lug or ear on the bottom of the box. A spring, *f*, interposed between said lever and the bottom

of the box, normally holds said lever in the position shown in Figs. 1 and 2, the end *c'* being thus caused to cover the end or mouth of the box and retain the cuttings therein. When the conductor desires to empty the box, he presses on the rear end of the lever *d*, and thus removes the movable end from the mouth of the box, when the cuttings may be readily discharged. This may be done when the conductor is passing from one car to another, the cuttings being thus scattered, so that there will be no possibility of their being secured by the holders of the tickets from which they were removed.

The box may be readily attached to any punch which it is formed to fit, the punch requiring no adaptation excepting the forming of holes for the screws *s s*. When the box is in place on the punch, it does not interfere in the least with the usual operation of the punch, the lever *d* being out of the way of the operator's hand.

I claim—

1. A conductor's punch provided with a box or receptacle for cuttings, a movable end or side for said box, and a spring whereby said end is normally held against the box, as set forth.

2. The combination, with a conductor's punch, of a box or receptacle for cuttings provided with a movable end or side having a closing-spring and an operating lever or handle, as set forth.

3. The cutting box or receptacle formed to be attached to one of the jaws of a punch, and provided with a movable end or side having a closing-spring and an operating-handle, as set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 7th day of November, 1884.

BENJAMIN C. SMITH.

Witnesses:

W. HARVEY MERRILL,
B. P. PICKING.