

(No Model.)

J. J. WALTON.

PUNCH.

No. 385,687.

Patented July 3, 1888.

FIG. 1.

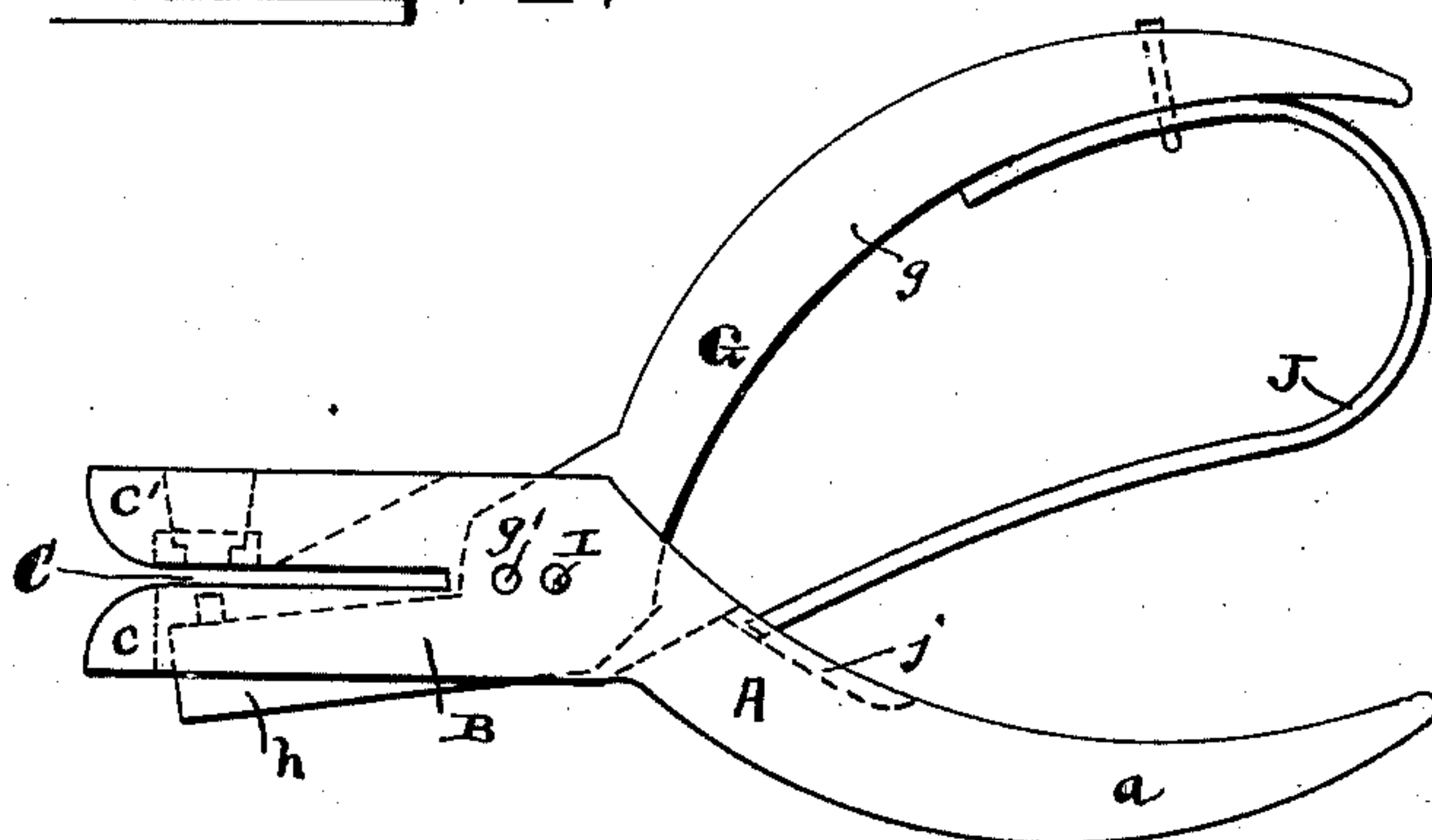


FIG. 2.

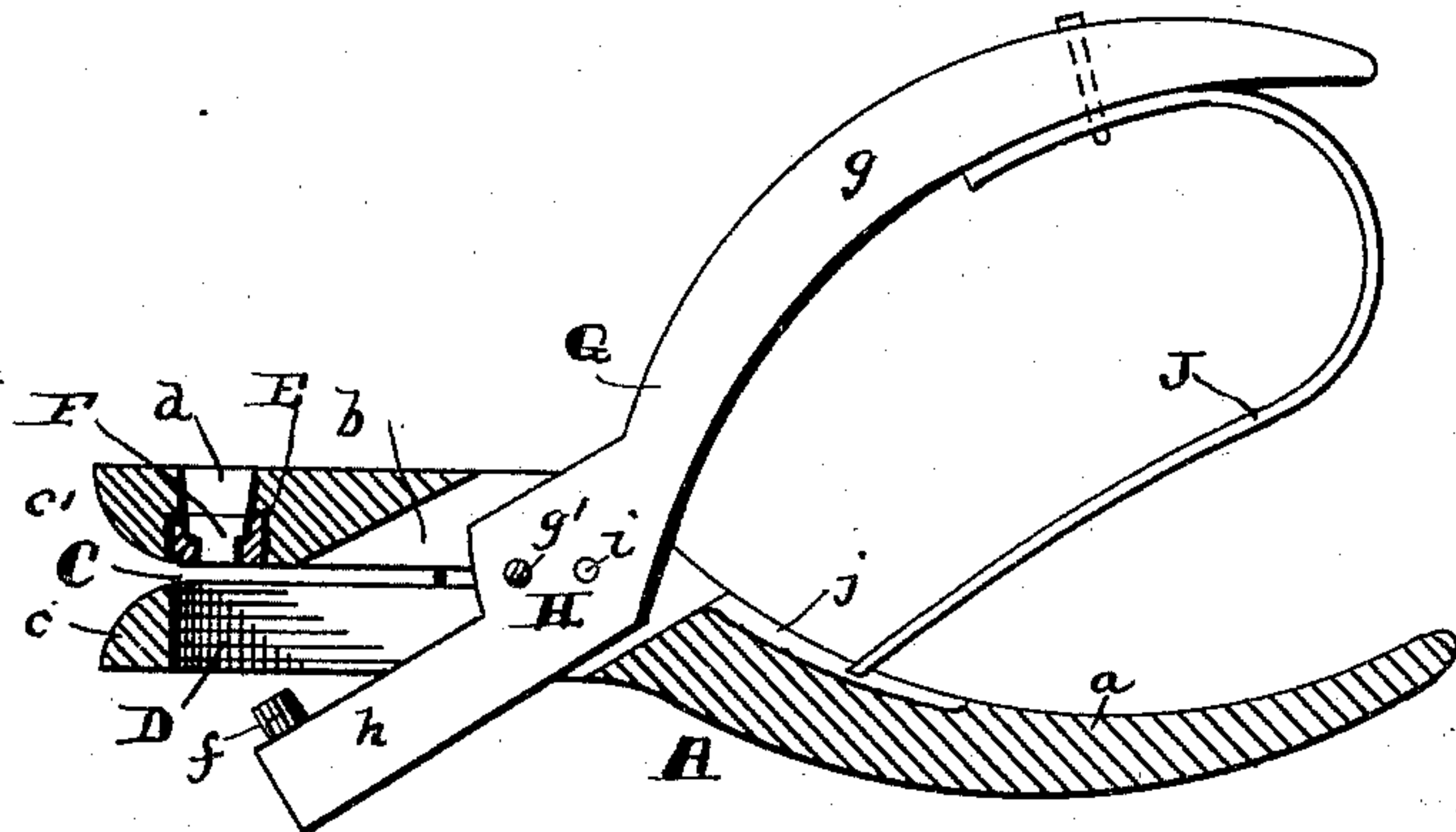
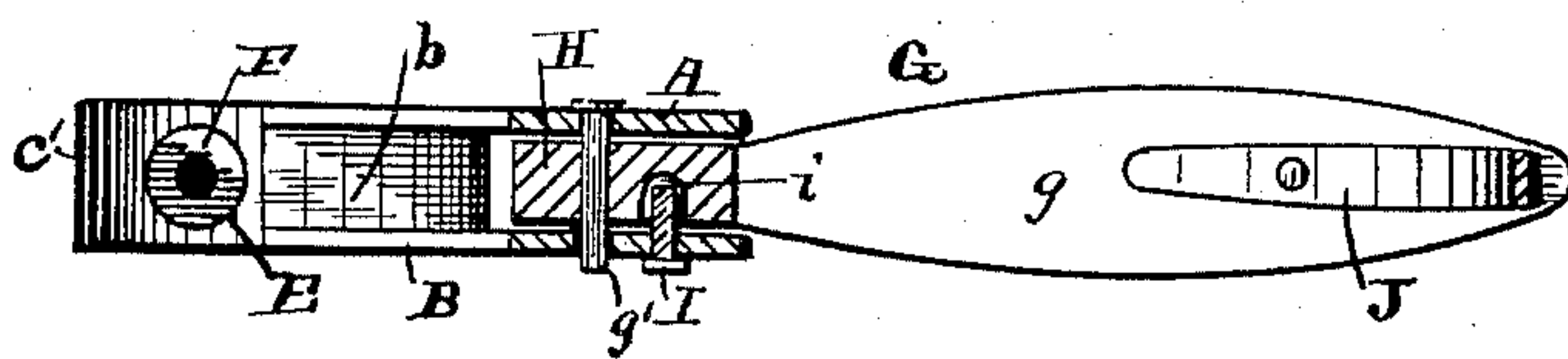


FIG. 3.



Witnesses,

O. W. Seville,
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Joseph J. Walton,

By his Attorney *W. Alexander.*

UNITED STATES PATENT OFFICE.

JOSEPH J. WALTON, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE WALTON MANUFACTURING COMPANY, OF NEW YORK, N. Y.

PUNCH.

SPECIFICATION forming part of Letters Patent No. 385,687, dated July 3, 1888.

Application filed May 9, 1888. Serial No. 273,344. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH J. WALTON, of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Punches; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification, in which—

Figure 1 is a side view of my improved punch, partly in section. Fig. 2 is a sectional view on line *x x*, Fig. 1. Fig. 3 is a cross-sectional view on line *y y*, Fig. 1.

This invention has for its object to provide an improved punch; and it consists in the novel construction and arrangement of parts of the punch hereinafter described, illustrated in the drawings, and particularly specified in the claim hereto appended.

Referring to the drawings by letter, A designates the main portion or piece of the punch, having a head, B, and handle *a*. Head B is slotted vertically and diagonally at *b* and centrally and transversely at C, as shown. The slot C divides the head into upper and lower parts, *c c'*, the part *c* being vertically slotted at D, forming a continuation of slot *b*. In the upper face of part *c'*, near the front end of the head and just beneath the slotted part *c*, is formed an opening, *d*, the inner end of which is enlarged, forming an annular recess, E, on the face next slot C, and in this recess E is seated and secured the die-block F, which is inserted through the slot in part *c*. The die-block has the usual die-opening, and from the manner of seating it in position, as shown, it will be seen that it cannot move laterally, has a firm bearing against part *c'*, and only requires sufficient fastening to prevent its being lifted out of its seat by the die as the latter is retracted. Soft solder or cement can be employed to fasten it in its seat; or the recess E and block F may be screw-threaded and thus engaged. The die-block, being inserted through the back of the tool, as described, can be more readily removed or replaced for repairs, and can be made to coincide with the die-punch

accurately. The die-block and recess may be made angular in plan, so that the die-blocks will be at once properly cemented when inserted in their seats.

G is the supplementary piece having the head H and handle *g*. Head H is angular, as shown, and is inserted in slot *b* of head B and pivoted therein by a pin, *g'*, which passes through the walls of slot *b*. Head H has an extension, *h*, entering slot D.

f is the die-punch, secured in the end of extension *h* in such position that when the handles are closed it will pass through slot C and enter the die-block F, co-operating therewith.

The die-block and punch may be constructed to make fanciful or initial perforations, as usual. The pieces A and G are kept in proper relative position by means of a screw-stud, I, passed through one side of head B and carrying a recess, *i*, in head H, as shown. This stud permits the punch to be opened sufficiently to introduce a ticket or paper into slot C, where the punching operation takes place.

J indicates a bent spring attached to handle *g* and turned inward, its inner end engaging in a groove, *j*, in handle *a*, near the pivot of the latter. This spring forms a loop by which the punch can be suspended, and the groove *j* prevents its free end slipping off handle *a*.

Having described my invention, I claim—

The herein-described punch, consisting of the piece A, having a slotted head, B, divided into two parts, *c c'*, and a handle, *a*, grooved at *j*, the part *c* having an opening, *d*, and an enlarged recess, E, at the inner end of said opening, and the die-blocks seated in said recess, in combination with the piece G, having angular head H and handle *g*, recess *i*, stud I, die-punch *f*, pin *g'*, and spring J, all constructed and arranged substantially as and for the purpose described.

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

JOSEPH J. WALTON.

Witnesses:

W. H. COOLIDGE,

CHARLES W. McLAUGHLIN.