

No. 698,820.

Patented Apr. 29, 1902.

H. COTTRELL.

TICKET PUNCH.

(Application filed Feb. 28, 1902.)

(No Model.)

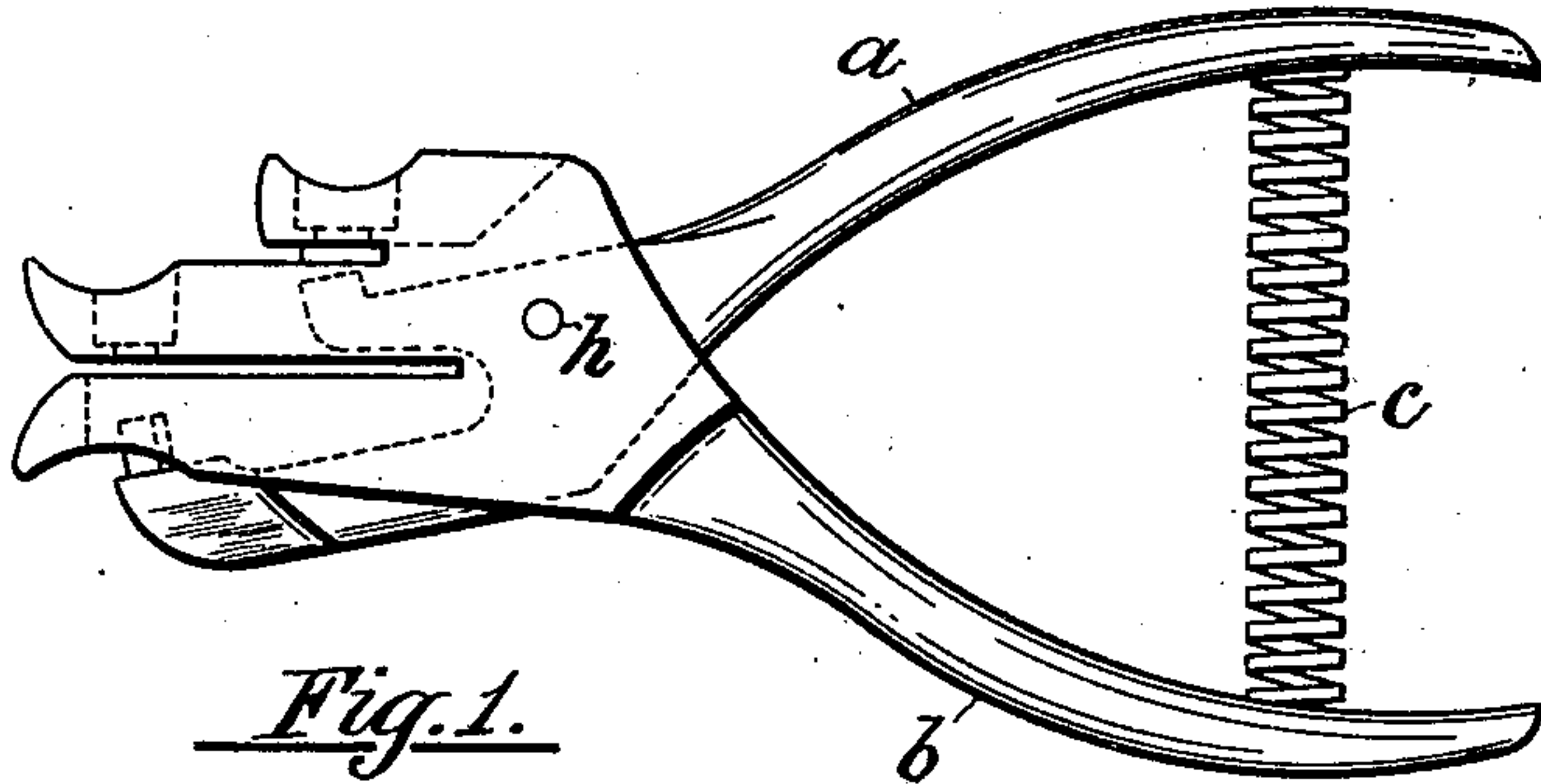


Fig. 1.

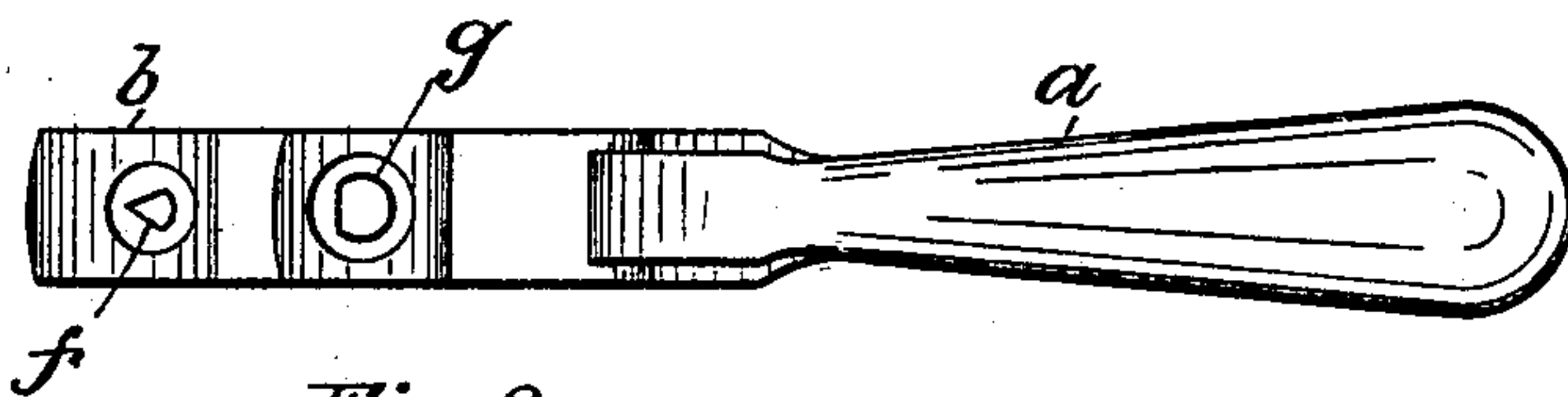


Fig. 2.

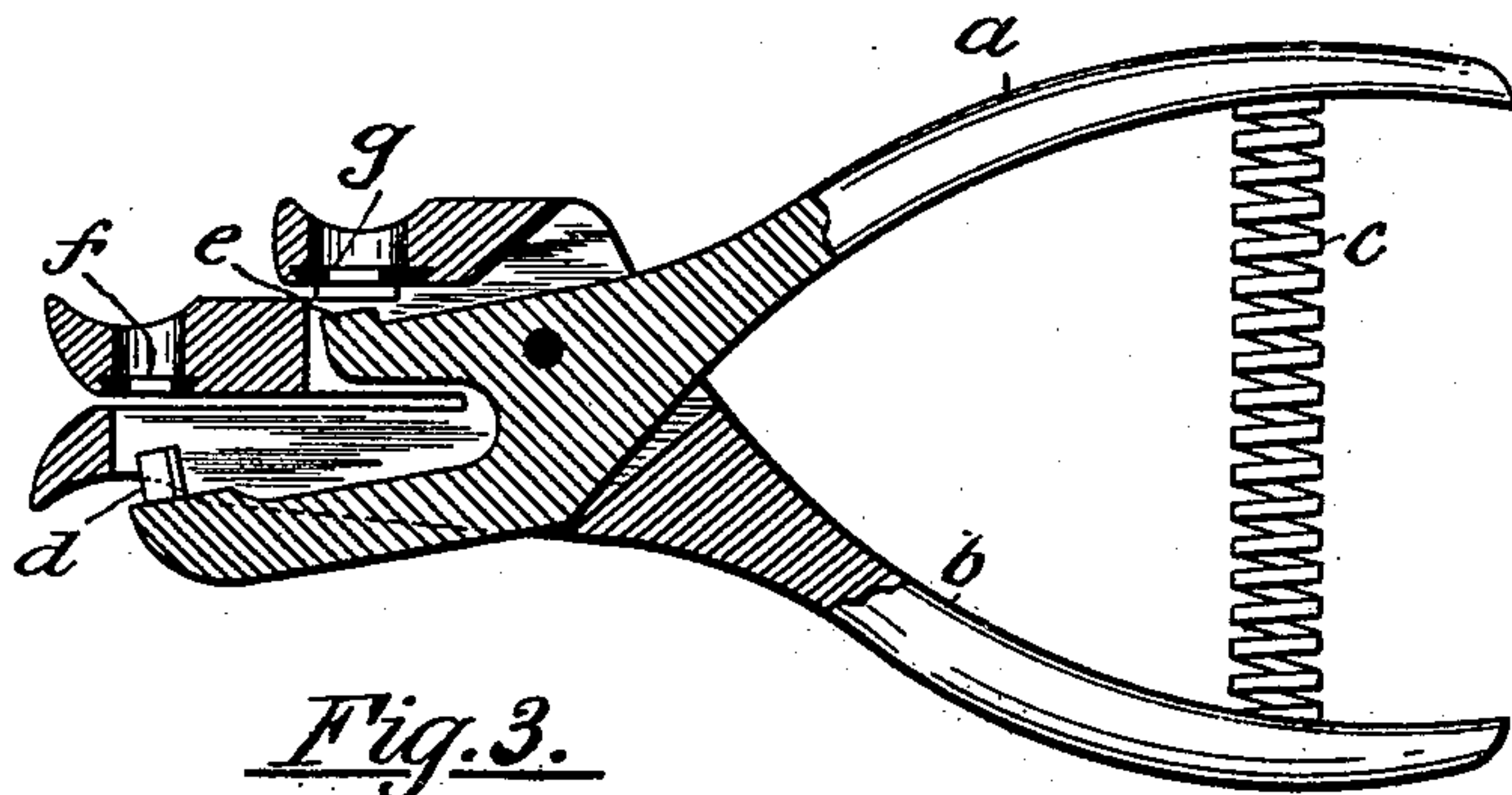


Fig. 3.

Witnesses:

H. C. Condit
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[Signature]

UNITED STATES PATENT OFFICE.

HERBERT COTTRELL, OF NEWARK, NEW JERSEY, ASSIGNOR TO L. A. SAYRE & CO., OF NEWARK, NEW JERSEY, A FIRM.

TICKET-PUNCH.

SPECIFICATION forming part of Letters Patent No. 698,820, dated April 29, 1902.

Application filed February 28, 1902. Serial No. 96,042. (No model.)

To all whom it may concern:

Be it known that I, HERBERT COTTRELL, of the city of Newark, county of Essex, State of New Jersey, have invented certain new and useful Improvements in Ticket-Punches, of which the following is a specification.

The object of my invention is to produce a combination ticket-punch in which the punch and die members have the double function of edge and central ticket-perforators, thus combining the operations of two punches in the simple members of a single punch. To do this, I form the punch-carrying member of the ordinary shape for hand-pressure, but having a pivot as a fulcrum for a bifurcated portion, comprising a punch-lever of small radius and a punch-lever of larger radius. I also form the die-carrying member of like shape for hand-pressure, but having a pivot-hole on the central line between two ticket slots and dies, the upper and shorter one being adapted for perforating the edge of tickets and the lower and longer one for perforating the central portion of tickets. These dies correspond with the radius of and articulate with the two punches of the punch member.

In the accompanying drawings, which form part of this specification, Figure 1 is a vertical view, Fig. 2 a plan view, and Fig. 3 a vertical sectional view, showing my invention, in which similar letters of reference refer to like parts.

Referring to the drawings, Fig. 1, *a* represents the punch-carrying member. *b* represents the die-carrying member. *c* is an expansible spring to open the punch. *h* is a pivot-fulcrum for the punch-levers.

Fig. 2 shows the relative position of the

edge-perforating die *g* and the central-perforating die *f*.

Fig. 3 shows in section the operative parts of my invention, comprising the member *a*, having its pivoted end bifurcated, forming the edge-perforating punch *e* and the central-perforating punch *d*.

The operation is as follows: The edge of a ticket being inserted in the slot below the die *g*, the hand-pressure may then compress the spring *c* and cause the punch *e* to cut a perforation in the edge of the ticket, the location of which may be observed through the orifice of the die and the opening at *g*. Upon releasing the pressure the spring *c* expands and opens the punch again. In a like manner the punch *d* and die *f* may through the longer slot be operated to cut central ticket-perforations.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

A combination ticket-punch; comprising a punch-carrying member, with its pivoted end bifurcated; having formed upon one branch thereof a ticket-edge-perforating punch; and upon the other branch a ticket central-perforating punch; and a die-carrying member, having two dies and slots, adapted to correspond with the radius of and to articulate with the two punches of the punch-carrying member, substantially as shown and described, and for the purposes set forth.

Signed this 26th day of February, 1902.

HERBERT COTTRELL.

Witnesses:

H. C. CONDIT,
HOWARD H. ECKERT.