

No. 835,485.

PATENTED NOV. 6, 1906.

R. WOODMAN.  
TICKET PUNCH.  
APPLICATION FILED FEB. 17, 1905.

FIG. 1.

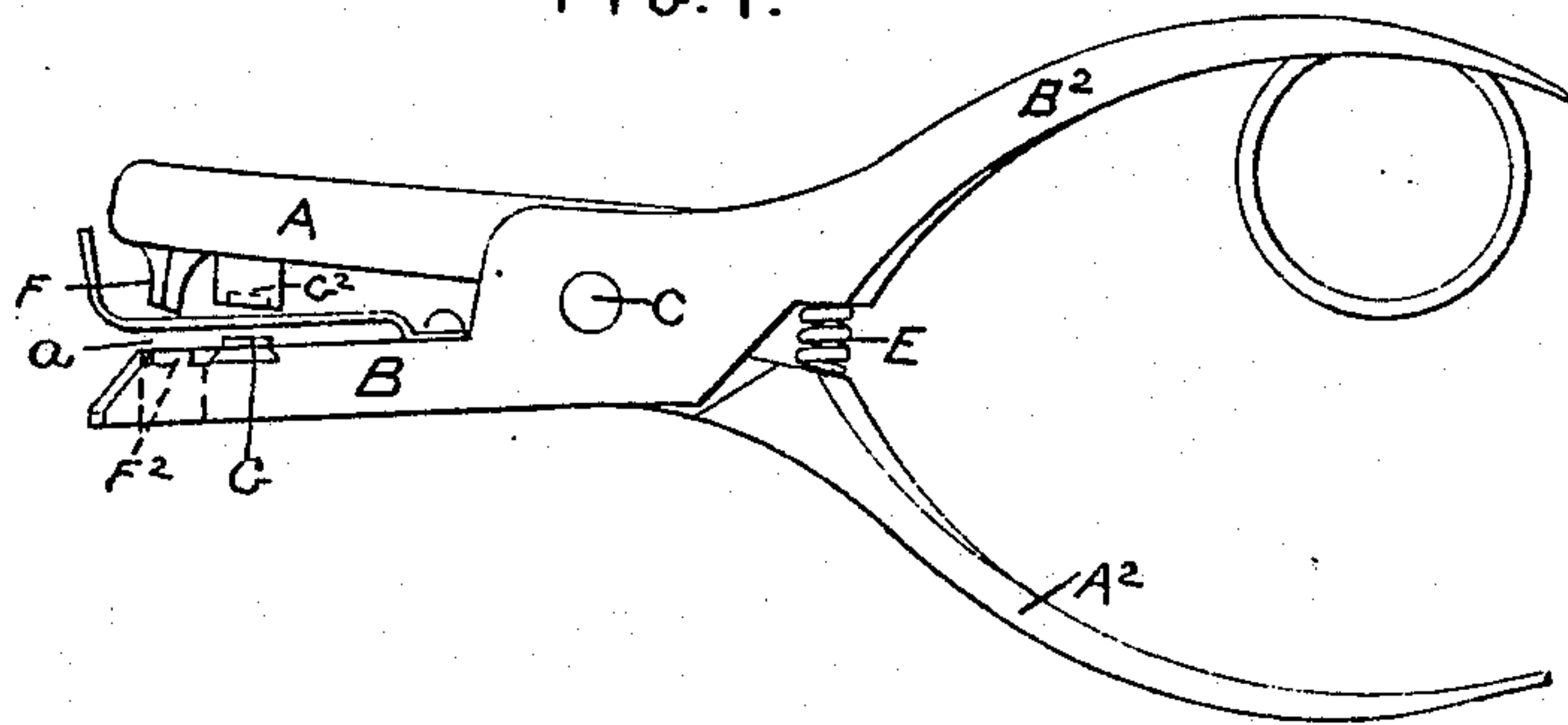


FIG. 2.

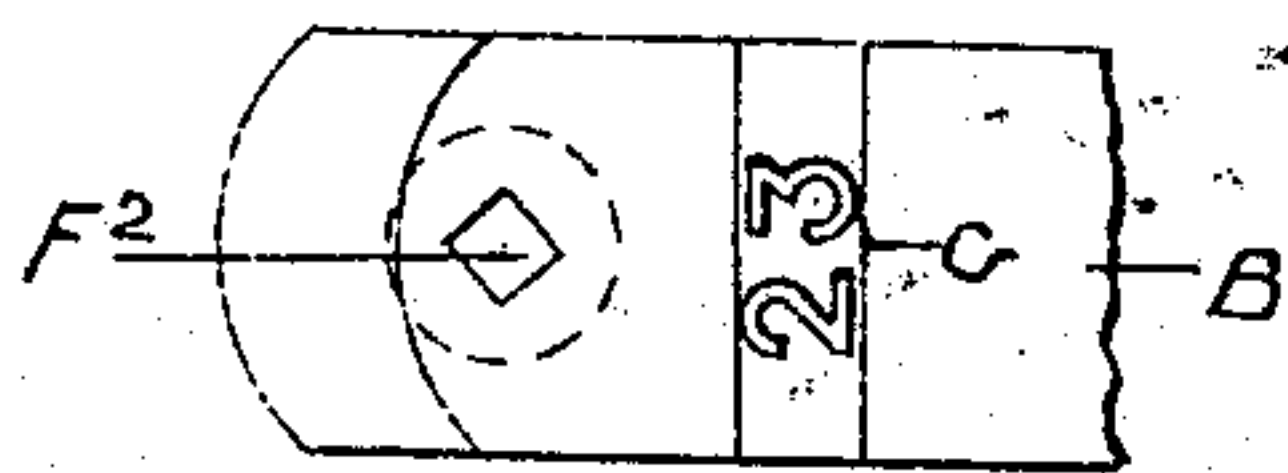


FIG. 3.

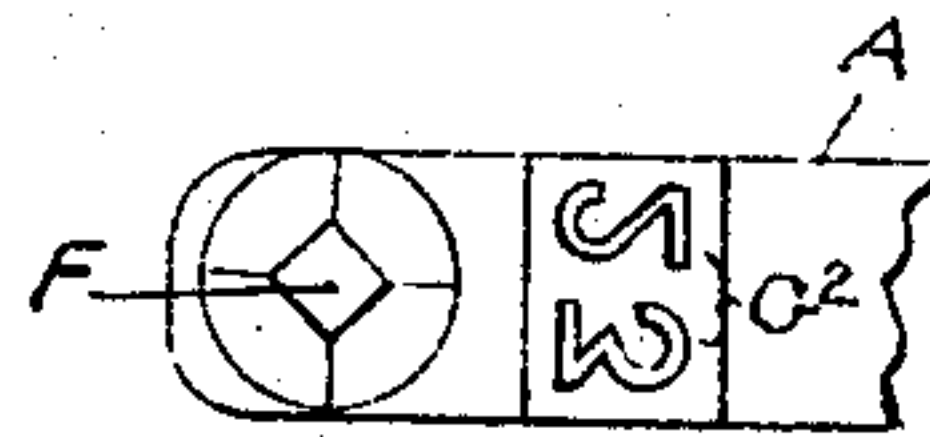


FIG. 4.

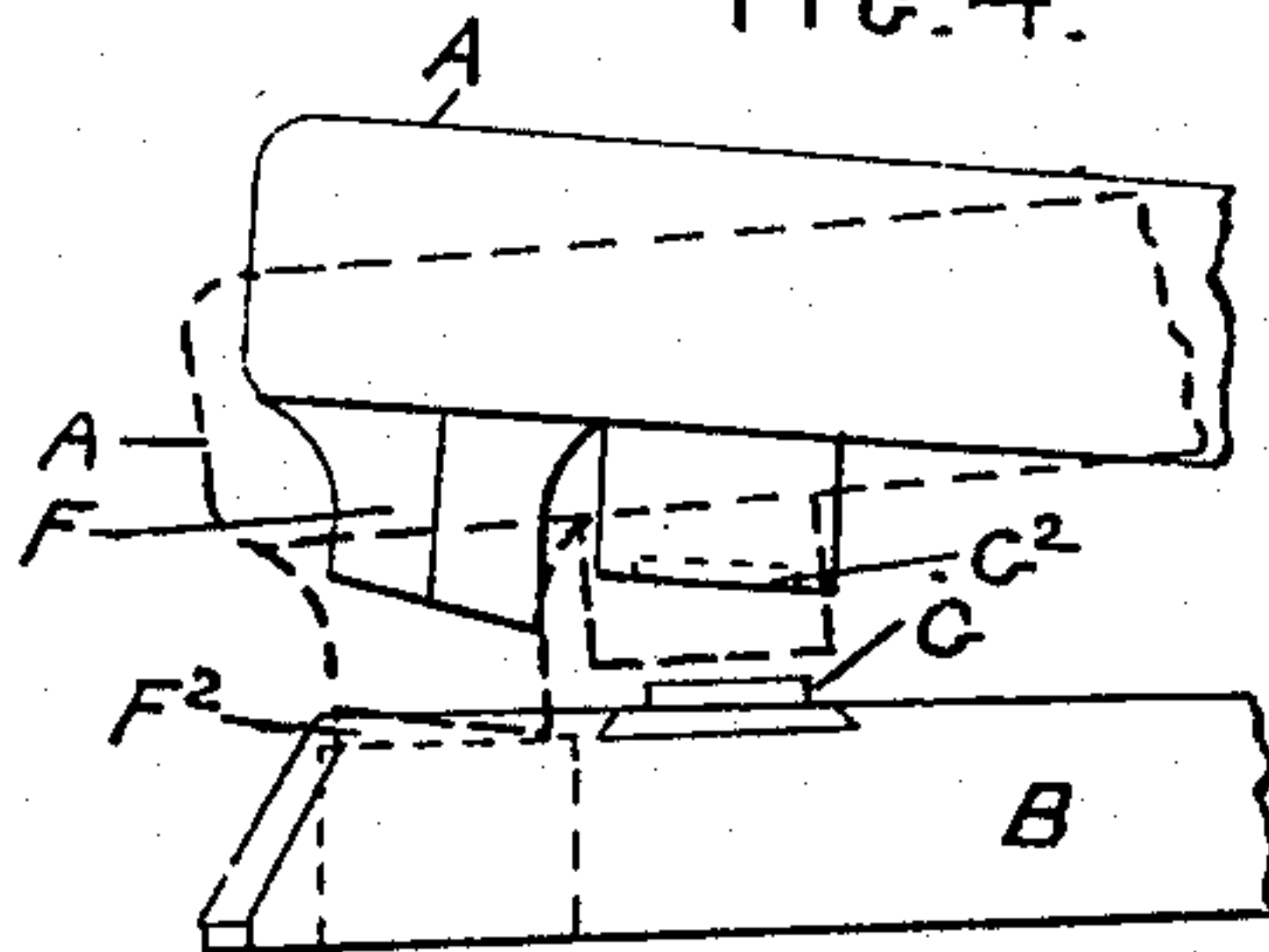
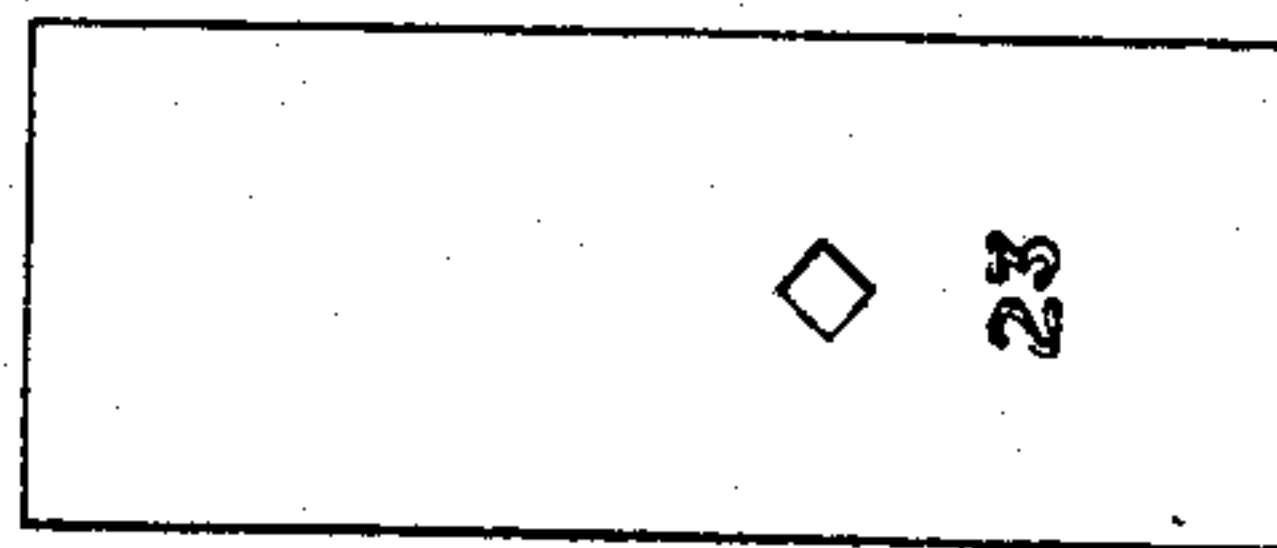


FIG. 5.



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# UNITED STATES PATENT OFFICE.

ROBERT WOODMAN, OF MALDEN, MASSACHUSETTS.

## TICKET-PUNCH.

No. 835,485.

Specification of Letters Patent.

Patented Nov. 6, 1906.

Application filed February 17, 1905. Serial No. 246,163.

*To all whom it may concern:*

Be it known that I, ROBERT WOODMAN, a citizen of the United States, residing at the city of Malden, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Ticket-Punches, of which the following is a specification.

This invention relates to that class of hand-punches for punching railway-tickets, restaurant and other checks, &c., composed of two jaws, each having a handle in continuation thereof and pivoted or fulcrumed to each other intermediate of the length of the jaws and handles, and of a spring to hold said jaws normally opened or separated and a set of punching-dies carried by the jaws.

This invention consists in the combination with such an implement of a set of embossing-dies, all as hereinafter fully described.

In the accompanying plate of drawings, forming a part of this specification, Figure 1 is a side view of the jaws and their respective operating-handles severally fulcrumed on each other and shown in their normal position, all as well known, and also a side view of the punching and embossing dies severally arranged on the jaws, all in accordance with this invention and as hereinafter appears. Figs. 2 and 3 are detail and enlarged views, Fig. 2 being a face view of the female punching-die and a face view of the male embossing-die, both on one and the same jaw, and Fig. 3 being a face view of the male punching-die and a face view of the female embossing-die, both on one and the other of the said jaws. Fig. 4 is a detail and enlarged side view of the jaws as shown in Fig. 1 and showing in dotted lines the relative position of the two sets of dies on the completion of the punching of the ticket, &c. Fig. 5 is a face view of a blank card in illustration of a ticket or check and as it is punched and embossed by the implement, as particularly shown in the preceding figures.

In the drawings, A and B are the two jaws, and A<sup>2</sup> and B<sup>2</sup> their respective handles in continuation thereof and severally fulcrumed together intermediate of their combined length by a pin C and provided with a spring E to return the jaws and handles to their normal positions after an operation of the instrument, and all as in ticket-punches of the class on which this invention is an improvement, as hereinafter appears.

F is the male part or member, and F<sup>2</sup> is the female part or member, of the punching-die. The male member F is on and projects from the jaw A toward the jaw A<sup>2</sup>, and the female member F<sup>2</sup> is on the jaw A<sup>2</sup> and in line to receive the male member, and both are located at the outer end portion of their respective jaws, and by pressing the handles toward each other and against the resistance of their spring E a ticket, &c., having previously been placed between the jaws and in a way of the jaw B, is punched out in accordance with the punching shape of the dies, in the present instance shown as diamond-shaped. (See particularly Figs. 2, 3, and 5.)

G is the male part or member, and G<sup>2</sup> is the female part or member, of the embossing-die. The male member G is on and projects from the jaw B toward the jaw A, and the female member G<sup>2</sup> is on the jaw A, and both are located between the punching-die before explained and the fulcrum-pin of the jaws and handles, and, further, their working or embossing faces in the normal position of the jaws are placed at such a distance apart as to come into action on the ticket, &c., in the closing movement of the jaws only after the ticket, &c., has been fully punched by the punching-dies.

It thus appears that the punching and embossing are entirely separate and independent actions of the implement and that the embossing is effected after the ticket, &c., has been fully punched.

The combination and arrangement described is obviously advantageous in many respects, notably that it is simple, effective, and easy in action and necessarily insures most perfect embossing for the reason that the embossing action is in no way complicated with or hampered by the punching action.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination with two jaws each having a handle in continuation of it and both hung on a fulcrum-pin intermediate of their opposite ends and a spring applied between said handles to keep said jaws normally separated or opened from each other, of a punching-die having its members located on and at the outer end portions of the jaws, and an embossing-die having its members located on and between said punching-die and said fulcrum-pin of the jaws and the working faces



of the members of the embossing-die, and in the normal position of the jaws, placed at a distance apart or separated for action together only after the completion of the action of the punching-die, as described and for the purposes specified.

In witness whereof I have hereunto set my

hand in the presence of two subscribing witnesses.

ROBERT WOODMAN.

Witnesses:

ALBERT W. BROWN,  
L. W. HOWES.