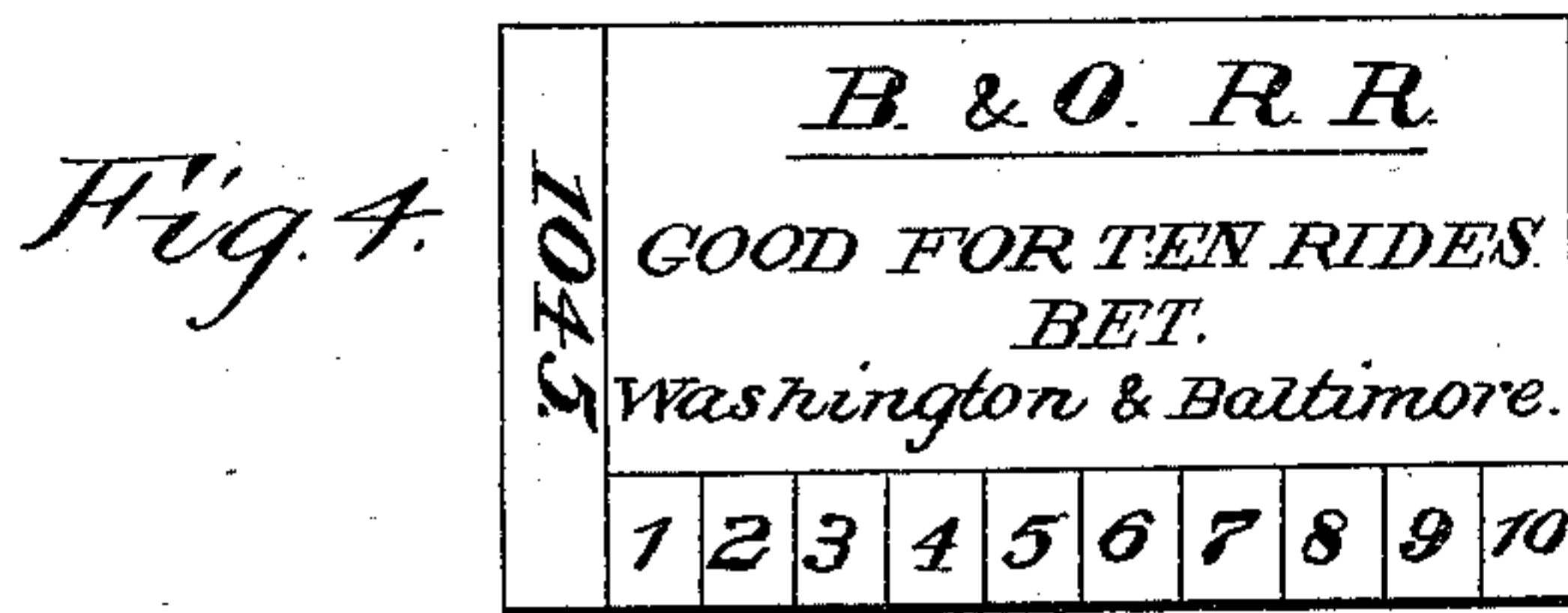
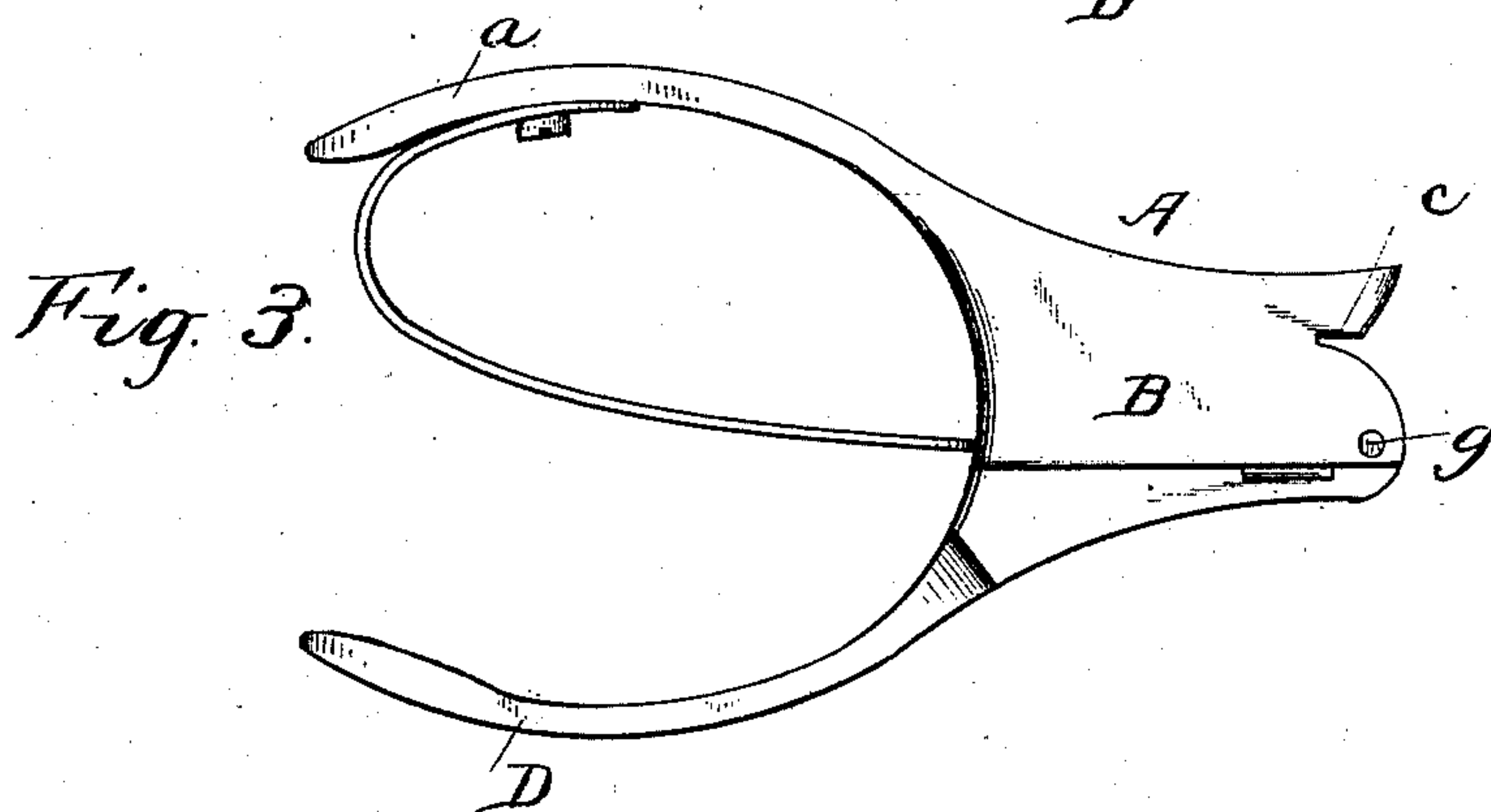
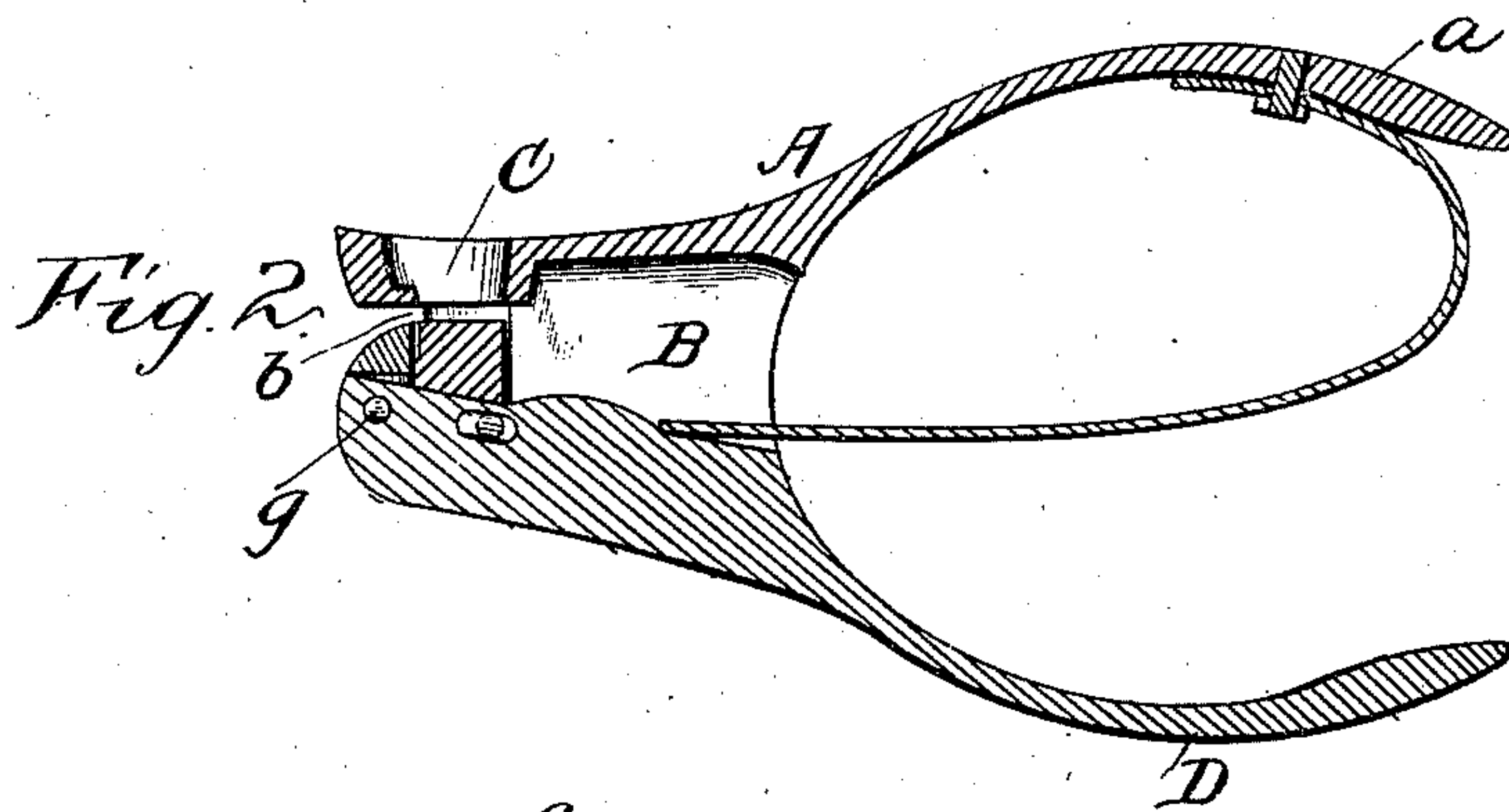
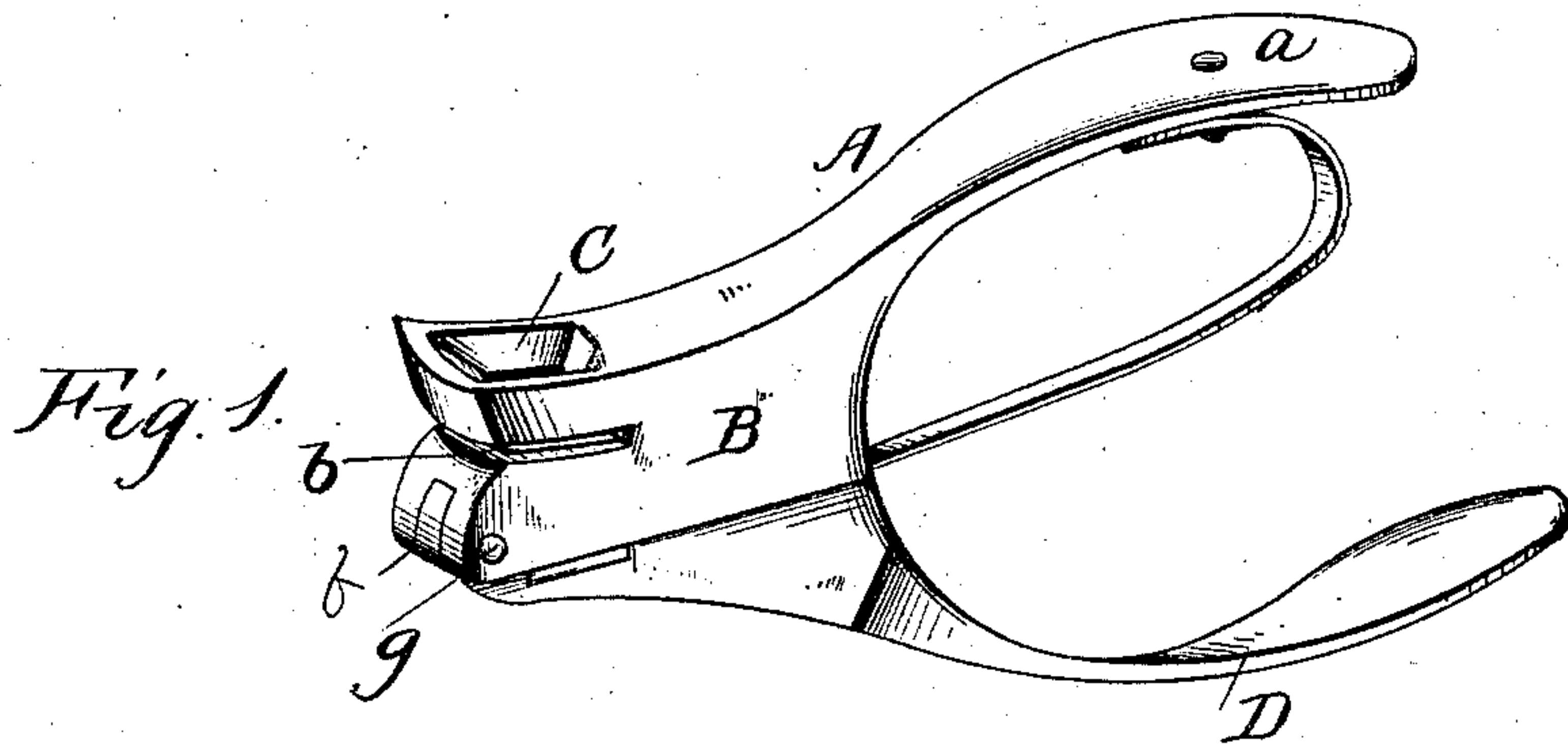


(No Model.)

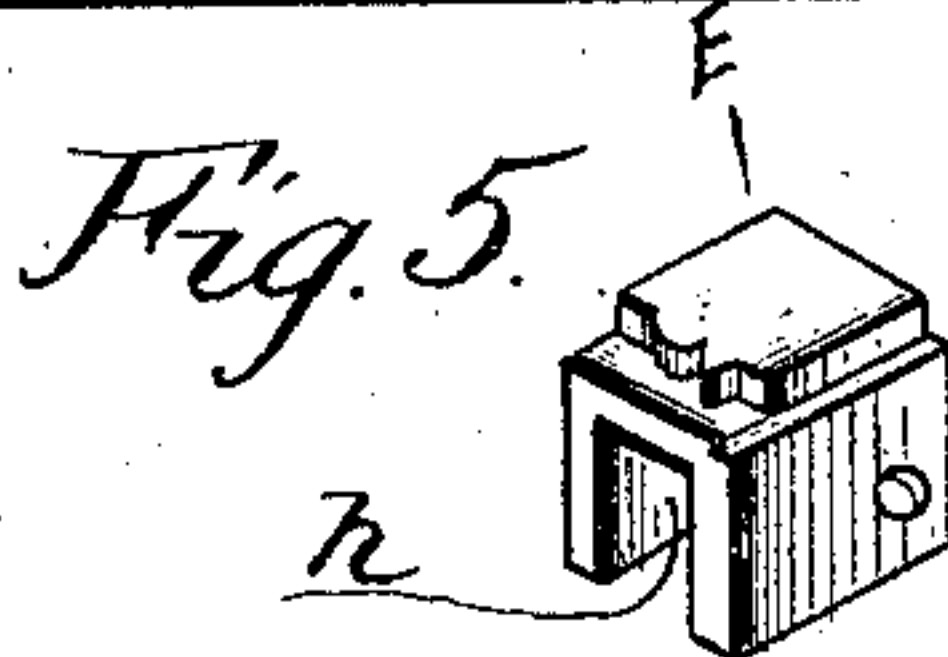
M. F. MOGG.  
TICKET PUNCH.

No. 305,099.

Patented Sept. 16, 1884.



WITNESSES  
*C. M. Dashiell*  
*E. G. Siggers*



*M. F. Mogg*  
INVENTOR

by *C. A. Snow*  
Attorneys



# UNITED STATES PATENT OFFICE.

MARION F. MOGG, OF CHICAGO, ILLINOIS.

## TICKET-PUNCH.

SPECIFICATION forming part of Letters Patent No. 305,099, dated September 16, 1884.

Application filed July 19, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, MARION F. MOGG, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Ticket-Punch, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to ticket-punches designed for use upon what are known as "commutation-tickets," wherein a series of coupons are attached to the body of the ticket, and where one of said coupons is to be detached or removed for each trip. Heretofore, with the old style of punch, where the ticket was punched a certain number of times, the clippings were frequently replaced, thus deceiving the conductor and defrauding the road; moreover, much inconvenience was experienced from the fact that the conductor was obliged to count the number of times the ticket had been punched to determine whether or not the number of trips to which the passenger was entitled had been taken.

My invention has for its object to remedy these defects and to provide a punch with a die or dies of improved construction, whereby the coupon is removed entire; and, further, to so construct the punch that it will be impossible to remove but one coupon at a time, thus rendering it impossible to in any way injure the other coupons by a mispunch.

With these ends in view the invention consists in the improved construction of dies, and in other details of construction to carry out the above-recited objects, as will be hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a ticket-punch constructed in accordance with my invention. Fig. 2 is a longitudinal vertical section. Fig. 3 is a side elevation showing the stop to prevent the entrance of the ticket farther than the proper point. Fig. 4 is a view of the ticket in connection with which my improved punch is to be used, and Fig. 5 is a detail view of the cutting-die.

In the accompanying drawings, in which like letters of reference indicate corresponding parts in all the figures, A represents the

punch, which consists of the body portion B, terminating at its rear end in a handle or lever, *a*. The body portion B is provided on its front end face with a horizontal slot or slit, *b*, which extends a short distance toward the rear end of the body portion a sufficient distance to allow of the cutting or punching of the coupon. One of the sides of this slot is closed, as shown at *c*, to limit the insertion or passage of the ticket farther than the desired point—namely, the width of one of the coupons of the ticket. It will thus be seen that in removing a coupon for a ride the adjacent coupon will not be injured or cut. A rectangular opening or passage, C, is provided, which extends vertically through the body portion of the punch, near the forward end thereof. In this rectangular opening is seated the female die, which is slightly smaller than the rectangular opening, and is provided with cutting-edges. The die is so located that its under face is adjacent to the upper side of the horizontal slot in which the ticket is inserted. The forward or front end of the female die may be of any desired design or configuration, so that when a coupon is removed the body of the ticket will be marked, thus denoting the conductor who last punched the ticket, the dies being of different design.

D represents the lever carrying the male die, said lever being pivoted in a slot, *f*, the pivotal pin *g* passing through the lever D and body portion B at their forward ends.

E represents the male die, which is provided with a vertical opening, *h*, to receive the lever B, said lever being provided with an elongated slot for the passage of a pin pivoting said die and lever. It will be seen that by providing the lever B with an elongated slot a free and easy motion or movement is allowed the same when depressed. A flat spring is secured to the handle *a* of the body portion B, its other or free end bearing upon the under side of the lever D within the vertical slot or opening *f*.

The operation is as follows: The coupons are, as shown, arranged to run from right to left, coupon No. 1 being in the lower left-hand corner, while, say, coupon No. 10 is located in the lower right-hand corner. This being the case, the lower right-hand corner of the ticket is inserted between, or, more properly,



within, the horizontal slot of the body portion, the closed side of said slot limiting the movement of the ticket farther than the point required to remove coupon No. 10, and, as the 5 dies are provided with distinguishing-marks, a corresponding mark is left upon the body of the ticket, thus denoting what conductor last punched or removed a coupon. It will be seen that should a passenger protest that his 10 ticket had been punched it would only be necessary for the conductor to examine the same, when it would be readily apparent whether or not it had been punched by him; but if the last coupon had been removed by 15 another conductor his mark would be left upon the ticket, so that it would be plainly evident that the person had not had a coupon removed for the trip he was enjoying.

Having fully described my invention, what 20 I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the body portion

having a slit or opening, *b*, closed on one of its sides, and having a rectangular opening, of a lever pivoted in a slot of said body portion 25 and carrying a punching-die, as set forth.

2. The combination, with the lever *D*, of a die having recess *h* to fit over said lever, and a pin for pivotally securing said die and lever, 30 as set forth.

3. The combination, with the body portion having a rectangular opening, and provided with a horizontal slit for the insertion of the ticket, one of the sides of said slot being closed, 35 of a die rectangular in form, having a recess, *h*, and a pin pivotally connecting said die and lever, substantially as set forth.

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

MARION F. MOGG.

Witnesses:

JAMES P. ROOT,

ORSON H. BROOKE.