

(No Model.)

H. M. GRANTHAM.
TICKET PUNCH.

No. 476,378.

Patented June 7, 1892.

Fig. 1.

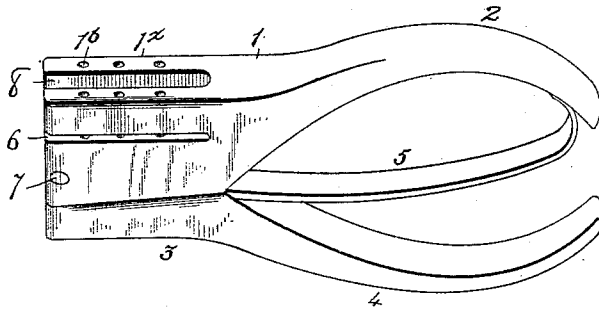


Fig. 2.

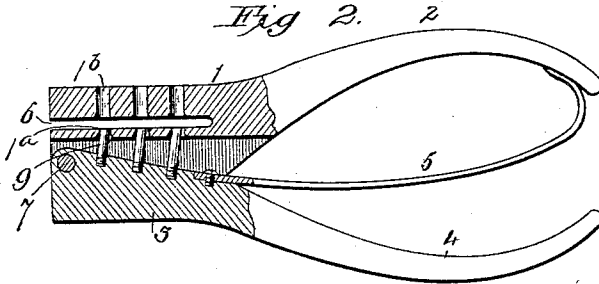
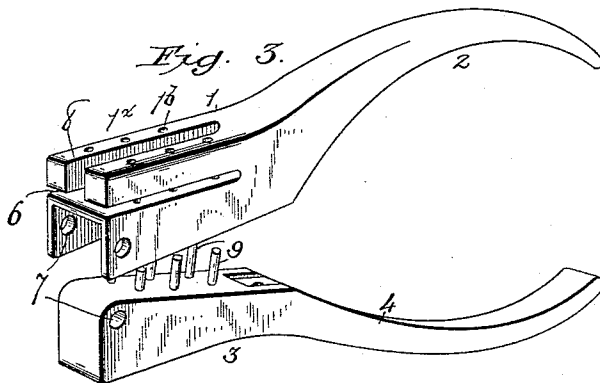


Fig. 3.



Witnesses

A. J. Schwarz
R. H. Taylor.

Inventor

Harry M. Grantham

By his Attorney,

J. Fred. Reily.

UNITED STATES PATENT OFFICE.

HARRY M. GRANTHAM, OF WILMINGTON, OHIO, ASSIGNOR OF ONE-FOURTH
TO ADAM SCOTT, OF SAME PLACE.

TICKET-PUNCH.

SPECIFICATION forming part of Letters Patent No. 476,378, dated June 7, 1892.

Application filed March 25, 1892. Serial No. 426,447. (No model.)

To all whom it may concern:

Be it known that I, HARRY M. GRANTHAM, a citizen of the United States, residing at Wilmington, in the county of Clinton and State of Ohio, have invented certain new and useful Improvements in Ticket-Punches; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention consists in a ticket-punch for the use of railroad-ticket agents in punching coupon-tickets, and possesses certain novel and valuable features which give it great practical advantage; and my invention will be hereinafter fully described and claimed.

Referring to the accompanying drawings, Figure 1 is a top perspective view of my new and improved coupon-ticket punch. Fig. 2 is a side elevation, partly in section, of the same. Fig. 3 is a detail view showing the two halves of the punch separated.

The same numerals of reference indicate corresponding parts in all the figures.

Referring to the several parts by their designating-numerals, 1 indicates the upper half of the punch, having the integral handle 2, and 3 indicates the lower half of the punch, having the integral handle 4, 5 indicating an ordinary steel spring for holding the punch open and ready for use.

In the body of the upper half of the punch 1 is formed a longitudinal opening 6, extending horizontally through the body for the insertion of the ticket-coupon which is to be punched.

The lower part of the body 1 is recessed to adapt it to fit over the lower half 3, to which it is pivoted or hinged at its outer end at 7.

To each side of its center the body 1 is formed with three perforations, both on the lower and the upper side of the horizontal opening 6, making twelve (12) perforations in all, the lower perforations 1^a registering with the upper perforations 1^b.

The upper half of the body 1—that part of it extending above the horizontal opening 6—

is divided or forked by the formation through its center of a longitudinal opening 8, which divides the top part of the body, which may be denominated 1^x, into two parallel arms, through which the upper perforations 1^b extend.

In the lower half 3 of the punch are mounted the punches or dies 9, which move with the upward movement of the lower half 3 and pass up through the lower perforation 1^a, through the ticket which has been inserted in the horizontal opening 6 and through the upper perforations 1^b, when the punch is closed, thus by the peculiar arrangement of the dies and perforations punching out the stations on both sides of the station, which is visible through the top opening 8, all at one movement. The punches or dies 9, as shown in the drawings, are formed of different lengths, increasing in length from the outer to the inner end of the punch-body as they extend back from the front of the horizontal opening 6, the object of this construction being to have all of the dies—six in number—come through the apertures and in contact with the ticket in the opening 6 evenly and at the same instant, thereby avoiding all danger of crimping or “drawing” the ticket, as will be readily understood.

The object of dividing the upper half of the punch-body 1^x by the sight-opening 8 is to enable the name of the station to be readily seen through this open space, so that a ticket-agent can punch coupon-tickets accurately and at precisely the desired point.

This punch has the great advantage over the large stationary punches which are generally used by ticket-agents and which are bolted to a table or shelf, in that it is small, light, and compact, and is designed to be carried in the hand so that the punch and a ticket can be carried to the light in a ticket-office and the ticket then accurately punched, the name of the station being clearly visible through the division-opening 8, or the ticket can be as readily punched while stepping from the case to the window of the office.

The advantages of my new and improved coupon-ticket punch will be readily seen over the stationary punch, which requires both the

ticket and the light to be carried to the punch, my invention being much more simple and cheaper in construction and convenient in use.

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

1. A portable coupon-ticket punch comprising the body 3, formed with a handle and having the dies or punches mounted in it, and the body 1, hinged to the part 3, provided with a handle and formed with the ticket-opening 6, the series of registering apertures, and having formed in the upper part 1^x of its body the longitudinal vertical observation-opening 8, substantially at right angles to the ticket-slot, and an opening-spring, as 5, substantially as set forth.

2. The combination of the body 3, formed with a handle and having dies or punches 9, arranged in two parallel lines, the body 1, hinged to the part 3, having a handle and formed with the ticket-opening 6, the vertical observation-opening 8, substantially at right angles to the ticket-slot, and the series of apertures 1^a and 1^b, arranged in two parallel lines, as specified, and the opening-spring, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HARRY M. GRANTHAM.

Witnesses:

F. M. CASTO,

W. I. STEWART.