

UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN REGISTERING TICKET-PUNCHES.

Specification forming part of Letters Patent No. 152,081, dated June 16, 1874; application filed May 19, 1874.

To all whom it may concern:

Be it known that I, JOSEPH CORBETT, of the city and county of Hartford and State of Connecticut, have invented certain Improvements in Registering Ticket-Punches, of which the following is a specification:

The improvements relate to a conductor's ticket-punch, such as is shown and described in Letters Patent No. 111,392, granted to James H. Small, January 31, 1871, to which reference is here made for a full description of said instrument. As shown and described in this patent, the punch proper has combined with it a suitable receptacle for the punch-cuttings, and an alarm-bell and a registering mechanism, both simultaneously operated each time the punch is used or the handle closed. The bell and registering device are arranged side by side, separated by a partition-plate within a case located between and attached to one of the handles of the punch. The two faces of this case are provided with hinged corners for affording access, respectively, to the bell and registering mechanism. These covers in the patent above referred to are shown fastened in a closed position by means of a single connecting-wire and soft-metal seal.

One part of the present invention relates more particularly to an improvement in the construction of the register-actuating mechanism, for the purpose of preventing the bell being rung without operating the register, which has sometimes been accomplished by partly closing the handles of the punch and raising the bell-hammer in such a degree that by suddenly allowing the handles to spring open the bell will be rung, while this movement of the handles is insufficient to move the register.

Another part of the invention relates to certain improvements in the means for locking the covers of the bell and register-case.

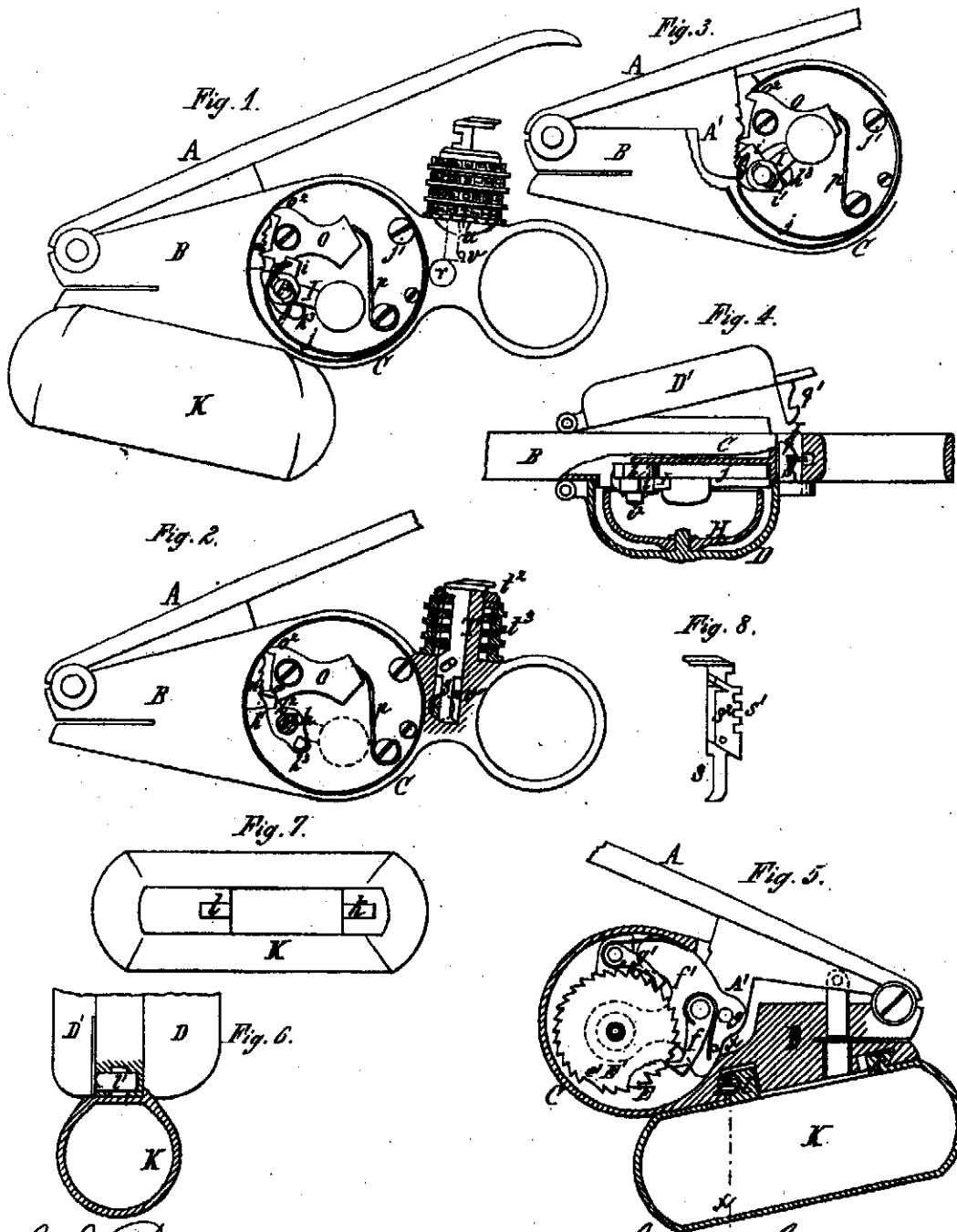
The invention consists, first, in the combination, with a ticket-punch, of a series of ratchets, a shifting-cam, and a spring detent-pawl, which latter is held in contact with said ratchets until released at the completion of the closing movement of the handles, whereby the ringing of the bell by partially closing the handles and then suddenly releasing the

same is prevented; second, in the combination, with the bell-hammer and handles of a ticket-punch, of two series of ratchets, an intermediate shifting-cam, and a reversible spring detent-pawl, whereby the movement of closing as well as opening the handles must be completed before it can be reversed, and the ringing of the bell by opening the handles partially, but not sufficiently to set the register for the next closing movement, is prevented; third, in the combination, with the bell-hammer and handles of a registering ticket-punch, of a cam engaging with the web of one of the handles for actuating the bell-hammer; fourth, in the combination, with the bell-actuating mechanism, of a reversible pawl, for returning the bell-cam to its normal position, as hereinafter described; fifth, in the combination of a locking-bar with the two oppositely-arranged covers of the bell and registering-case, each provided with a notched hasp, which, in closing the covers, overlap each other, so as to cause the notches therein to coincide and permit a single bar to lock both covers; sixth, in the arrangement of a combination-lock for securing the covers of the bell and registering mechanisms; seventh, in the combination, with the bar for the punch-cuttings and one of the covers of the bell and register-case of a ticket-punch, of a locking bolt or pin, arranged so that when the said cover is in a closed position it will retain the locking-pin in place and prevent the detachment of the bar; eighth, in the combination, with the unit-registering wheel and actuating-pawl, of a secondary registering-wheel, having one of its teeth or ratchets cut away, so that said wheel will cease to be actuated by the pawl when the latter engages in the space so formed in its circumference, whereby any attempt to start the registering mechanism back of the proper starting-point is detected, as hereinafter fully described; ninth, in the combination, with the locking-bar of a combination-lock, of a movable piece provided with the locking-notches, and so connected to the locking-bar that it will be moved outwardly, and thereby increase the hold or gripe of the bar on the locking-rings when an upward pressure is applied to the box in attempting to pick the lock.

J. CORBETT.
Registering Ticket-Punches.

No. 152,081.

Patented June 16, 1874.



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