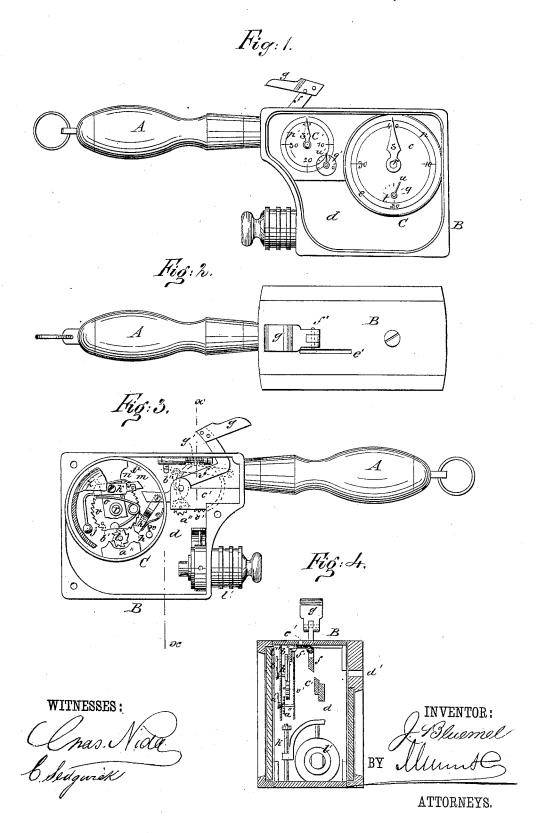
J. BLUEMEL. Fare-Register.

No. 203,881.

Patented May 21, 1878.



UNITED STATES PATENT OFFICE.

JULIUS BLUEMEL, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN FARE-REGISTERS.

Specification forming part of Letters Patent No. 203,881, dated May 21, 1878; application filed January 8, 1878.

To all whom it may concern:

Be it known that I, JULIUS BLUEMEL, of San Francisco, county of San Francisco, State of California, have invented a new and Improved Fare-Register, of which the following is a specification:

Figure 1 is a side elevation of my improved fare-register. Fig. 2 is a plan view. Fig. 3 is a side elevation, partly in section. Fig. 4 is

a transverse section taken on line x x, Fig. 3. Similar letters of reference indicate corre-

sponding parts.

My invention relates to a device for registering cash fares and clipping and registering tickets; and it consists in a case having glass sides and containing a clipping device, a bell which rings when the clipping device is operated, a registering device for recording each ticket clipped, and also a device for register-

ing the cash fares.

Referring to the drawing, A is a handle, to which is attached a frame, B, which contains glass panels, between which the working parts of the device are placed. The space thus inclosed is divided by the curved partition c into compartments dd^2 . In one compartment, d, is pivoted a lever, f, one end of which is bent upward, extending through the top of the frame B, and is provided with a thumb-piece, g. The other end projects through a slot in the curved partition c, and to it a hooked pawl, h, is pivoted. In the other compartment, d^2 , there is a bell, z, which is struck by the hammer j, that is secured to the lever k, which turns on the pivot l.

To one of the arms of the lever k a dog, m, is pivoted, which is kept in its normal position by a spring, n. When the lever f is moved the dog m is engaged, and the hammer j is drawn back until the dog escapes the end of the lever, when the spring o propels the

hammer so as to strike the bell.

A dial, c, is placed in the compartment d opposite the bell, and has two sets of graduations, p q. The graduations p are located at the edge of the dial, and concentric with the arbor r, that carries the index s. The graduations q are multiples of the total number of graduations on the edge of the dial. The circle on which the graduations q are made is concentric with the arbor t, that carries the index s. The graduations q are sliding when the circle on which the graduations q are made is concentric with the arbor t, that carries the index s.

ries the index u. Upon the arbor r, at the back of the dial, a ratchet-wheel, v, is secured in position to be engaged by the pawl h. The ratchet is prevented from retrograde movement by a spring-pawl, w. The arbor t is provided with a star-wheel, a'', that is engaged by a pin, b', that projects from the face of the ratchet v, so that at every revolution of the ratchet the star-wheel is moved one notch, recording the total of fares indicated by a single revolution of the index s.

The edge of the outer portion of the lever f is sharpened in the same manner as shear-blades are sharpened, and it moves along a stationary blade, e', as the register is oper-

ated.

A slit, d', is made in the side of the register-casing to receive the end of the ticket which is clipped by the cutting-edge of the lever f. The portion that is clipped from the ticket falls into the compartment d, where it may be seen by the passengers or conductor.

There is a slit, e', in the top of the frame B, that communicates with the compartment, and is closed by a hinged plate, f', that is pressed upward against the inner surface of the frame

B by a spring, g'.

At the side of the casing a dial, C', for registering cash fares, is secured, which is provided with graduations p' q', indexes s' u', and with a ratchet-wheel, v', and star-wheel a'', and is, in all respects, arranged like the dial c and its registering mechanism. The ratchet-wheel v' is engaged by a spring-pawl, h', pivoted to the lever b'', which is moved by the hinged plate f', so that whenever the plate is moved by inserting a coin in the slit e', the ratchet-wheel v' will be moved forward one notch.

It will be observed that the hinged plate prevents the extraction of coin or ticket-clippings from the compartment, and that any attempt at opening the slit e' by forcing the hinged plate f' inward will result in operat-

ing the registering mechanism.

One of the sides of the casing B is hinged for the removal of ticket-clippings and coin, and is provided with a hasp or staple for receiving a bolt, k', which is prevented from sliding when the door is closed by a combination-lock, k'. The construction of the register is such that it cannot be tampered with without detection.

Having thus described my invention, I claim as new and desire to secure by Letters Pat-

1. The combination, with the frame B, having handle A, glass panels, partition C, and compartments d d^2 , of the clipping, striking, and registering devices, substantially as shown and described.

2. The combination of lever f, having thumbpiece g and pivoted hook-pawl h, the striking

device z j, and the spring-lever k, as and for the purpose set forth.

3. The combination, in a fare-register, of the lever k, carrying the dog m and hammer j, the bell z, and the lever f, having a shear-cutting and so substantially as having a shear-cut do edge, substantially as herein shown and de-

JULIUS BLUEMEL.

Witnesses:

H. ARGENS, A. MORATH.