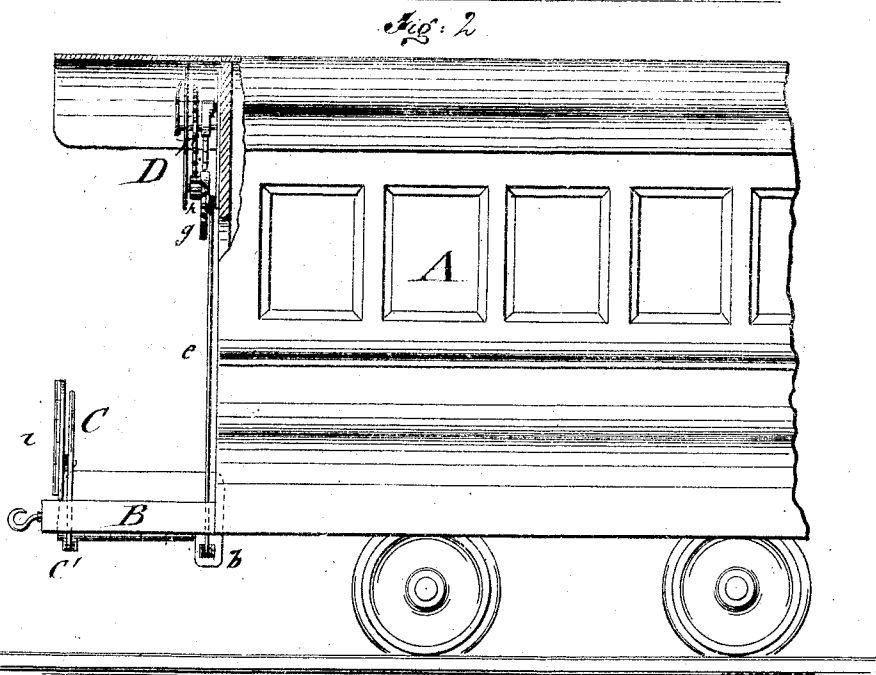
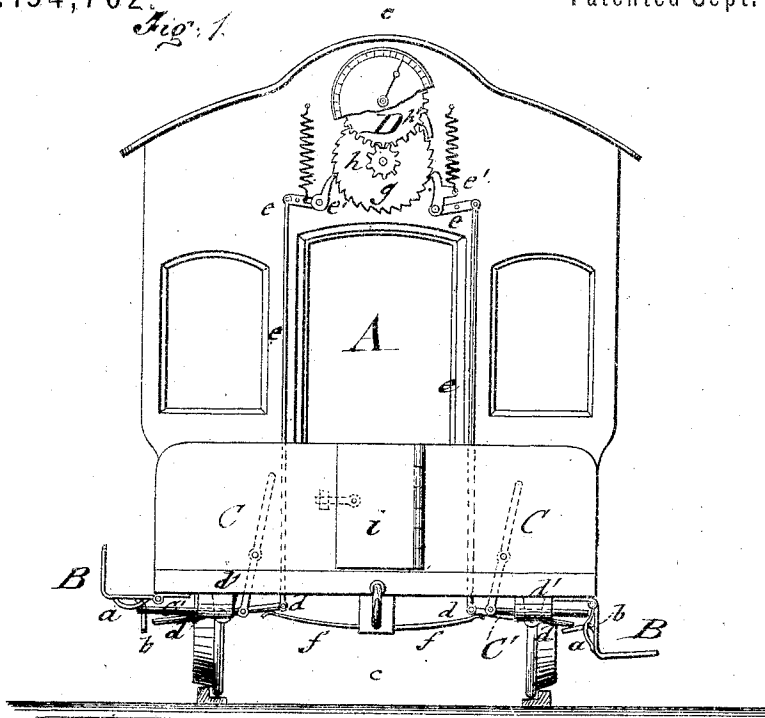


J. MEDINA.
Car-Steps.

No. 154,702.

Patented Sept. 1, 1874.



WITNESSES:

Cas. Nida
Pedgnet

INVENTOR:

BY

J. Medina
Wm. H. L.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSÉ MEDINA, OF CORDOVA, SPAIN.

IMPROVEMENT IN CAR-STEPS.

Specification forming part of Letters Patent No. 154,702, dated September 1, 1874; application filed January 5, 1874.

To all whom it may concern :

Be it known that I, JOSÉ MEDINA, of Cordova, in Spain, have invented a new and Improved Device for Raising and Lowering Steps of Cars, to be used in connection with a Passenger-Register, of which the following is a specification :

In the accompanying drawing, Figure 1 represents an end elevation of a street-car provided with my attachment, and Fig. 2 is a side elevation thereof with a fragment in section.

The invention relates to an improvement in the class of street-cars which are provided with hinged or spring steps, so arranged as to operate a registering apparatus whenever pressure is applied by a passenger entering or leaving the car. The improvement consists in the combination, with the hinged steps which operate the registering apparatus, of devices for raising or adjusting said steps to prevent passengers from getting on or off the platform at will.

The street-car A is constructed with the ordinary platform, to each side of which a right-angled step, B, is hinged, as shown.

In Fig. 1 one of the steps is represented as raised and the other lowered. The means of raising them are pivoted hand-levers C and sliding rods C', one to each step. The levers, which are under the control of the conductor, are arranged vertically and have their fulcrum above the platform, while the rods slide horizontally in suitable bearings below the same. The free ends of said rods work in contact with a spring-plate, a, which is applied to the back of each step. Thus, when the levers are operated to thrust the rods forcibly against

the plates a, the steps are raised or turned on their hinges. When one or the other of the steps is again lowered it operates an ordinary registering apparatus, D g h h', through the medium of pawl e', rod e, lever d, and a lug or arm, b, which is on the back of the step, as will be readily understood from the drawing.

This operation of the registering apparatus may, however, depend, or be made to depend, on the strength or resistance of the spring d, so that the registering apparatus will make no record until the passenger mounts or descends from the platform.

The levers d are supported at their inner or adjacent ends by a spring, c.

As the steps are raised and lowered solely to let passengers on or off the car their number will be recorded on the dial of the registering apparatus.

In addition to their office of operating the registering apparatus, the steps prevent passengers getting on or off the cars at will, whereby many accidents are avoided. They are also a check on the conductor, since a failure to raise the steps while the car is in motion would be considered equivalent to an attempt to defraud the railroad company.

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

The combination of the levers C, guide-rods C', and pivoted steps B, as and for the purpose specified.

JOSÉ MEDINA.

Witnesses:

T. B. MOSHER,
ALEX. F. ROBERTS.