

UNITED STATES PATENT OFFICE.

JOHN HUGYIK, OF NOKOMIS, ILLINOIS.

STEP.

1,027,338.

Specification of Letters Patent.

Patented May 21, 1912.

Application filed January 20, 1912. Serial No. 672,270.

To all whom it may concern:

Be it known that I, JOHN HUGYIK, a subject of the King of Hungary, residing at Nokomis, in the county of Montgomery and State of Illinois, have invented certain new and useful Improvements in Steps, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to steps, and the primary object of my invention is to provide yieldable steps that can be advantageously used in connection with passenger cars to prevent burglars from entering the cars.

A further object of this invention is to furnish steps with ejectors that can be operated to eject a person from the steps.

I attain the above objects by a device that has been primarily designed for passenger coaches, the device comprising yieldable steps that can be readily ascended when a passenger coach is not in motion, but when in motion the steps are vibrated to that extent as to render it almost impossible for a person to jump onto and ascend the steps. Besides resorting to the use of yieldable steps for preventing train robbers from jumping on a train as it leaves a station, I use the ejector in connection with each step and should the conductor or brakeman observe a suspicious person upon the steps, the ejectors can be operated to engage the limbs of a person and force the same from the steps whereby the person will be precipitated to the ground.

The invention will be hereinafter specifically described and then claimed, and reference will now be had to the drawing, wherein:—

Figure 1 is a vertical sectional view of steps in accordance with this invention, Fig. 2 is a front elevation of the same, and Figs. 3 and 4 are details.

The reference numeral 1 denotes a portion of a vehicle body, as a passenger coach having an end wall 2, a step frame 3 and a platform 4. The wall 2 and the step frame 3 are connected by equally spaced stepped tread supports 5 and yieldably mounted upon said supports and retained thereon by coiled compression springs 6 are treads 7 for

risers 8 that extend downwardly in front of the supports 5. The ends of the treads 7 having guide pins 9 extending into slots 10 provided therefor in the wall 2 and the step frame 3, said pins preventing accidental displacement of the treads. Pivotally mounted in the end wall 2 and the step frame 3 by pins or trunnions 11 are inverted L-shaped ejectors 12 corresponding in length to the risers 8. These ejectors are arranged upon the inner edges of the treads 7 and normally engage the risers 8. The inner sides of the ejectors 12 are provided with apertured lugs 13 pivotally connected, as at 15 to an operating lever 16, the lever 16 extending through a slot 17 in the platform 4 and is pivotally connected by a pin 18 to a bearing 19 located upon the platform 4 adjacent to the end wall 2.

By operating the lever 16 the ejectors 12 can be shifted to knock or force a person's feet off of the steps and it will be extremely difficult for a person to hold on to the car, when the same is in motion, without any footing. The yieldable steps make it extremely difficult for a person to ascend the same when a train is in motion and as a person has not a sure footing, it is an extremely easy matter to eject the person by operating the lever 16.

What I claim is:—

1. In a railway coach, the combination with the end wall, platform and step frame of a coach, of tread supports connecting said end wall and said step frame, spring supported yieldable treads carried by said supports, ejectors pivotally mounted between said end wall and said step frame above the rear edges of said treads, a lever pivotally supported by said platform, and rods pivotally connected to said lever and to said ejectors whereby said ejectors can be operated by a movement of said lever.

2. The combination with a railway coach, having an end wall, a step frame, and a platform, of supports connecting said end wall and said step frame, yieldable treads mounted upon said supports and having risers, pins carried by the ends of said treads and extending into slots provided therefor in said end wall and said step frame, ejectors pivotally mounted between said end wall

and said step frame above the rear edges
of said treads and normally engaging the
risers of said treads, a lever pivotally
mounted upon said platform and extending
5 below said platform, and rods connected to
said lever and said ejectors whereby a move-
ment of said lever will move said ejectors.

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

JOHN HUGYIK.

Witnesses:

GEORGE TENDZELOSKI,
D. H. ZEPP.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."