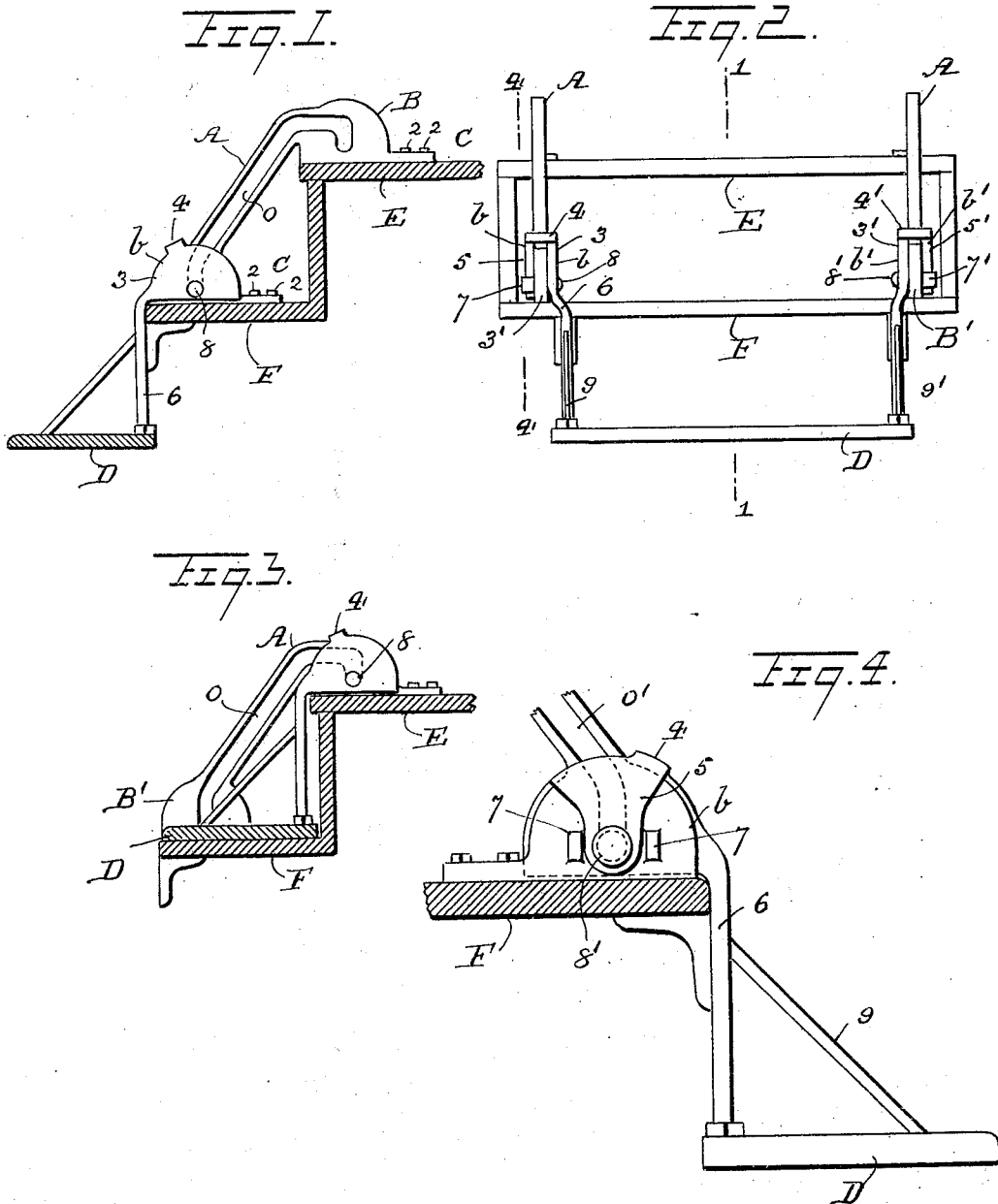


J. N. MARQUETTE.
CAR STEP.
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1,056,745.

Patented Mar. 18, 1913.



WITNESSES:
S. Q. Valentine
A. M. Snyder

INVENTOR
Jerome N. Marquette
BY
N. C. Gillert
ATTORNEY

UNITED STATES PATENT OFFICE.

JEROME N. MARQUETTE, OF BINGHAMTON, NEW YORK.

CAR-STEP.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JEROME N. MARQUETTE, a citizen of the United States, residing at Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Car-Steps, of which the following is a specification.

My invention relates to car steps for railroad passenger and Pullman cars, in which an auxiliary safety step is removably hung from the lower stationary step of the car.

One of the objects of my invention is to provide an additional auxiliary step that is readily moved out of the way when not in use.

Another object is to provide a step that is simple, safe, and secure and one that occupies a small space when not in use.

With these objects in view my invention consists in certain novel features of construction and arrangement of parts as will be hereinafter fully described and pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a sectional side view taken on the line 1. 1 of Fig. 2. Fig. 2 is a front view of my device. Fig. 3 is a sectional side view of my device with the third step folded back upon the stationary step, and Fig. 4 is a detail sectional side view of my device taken on the line 4. 4 of Fig. 2.

The same reference characters denote like parts in each of the several figures of the drawing.

In carrying out my invention I provide guides A and A' having the inclined slots O and O' and from either end of said guides are the semi-circular projections B and B'. Said guide A has extending from each of the end projections the base projection C, firmly bolted to the respective stationary car steps E and F by bolts and nuts, 2. 2. Mounted on guide A, I have the sliding hangers b and b' composed of the side pieces 3. 5 and 3'. 5' connected by the bridges 4 and 4'. The side projections 3 and 3' having extended from them the hanger legs 6 and 6' to the bases of which the third step D is attached, and between said hanger legs and step extends the braces 9 and 9'. Projecting from the outer side of b and b' are the lugs 7. 7 and 7'. 7'. The side pieces 5 and 5' when in hanging position slide down between the lugs 7. 7 and 7'. 7'. Between said side pieces 3. 5 and 3'. 5' extends the guide pins 8 and 8', which pass through the slots

O and O' respectively, thus controlling and guiding the hanger in its position when in use or controlling its position when not in use or while being moved out of the way.

In operation when the third step is down in operative position and it is desired to move it out of the way, I raise the removable step D upward pulling it toward me, thus causing the bolts 8 and 8' to move upward in slots O and O', and then when out of the perpendicular section of the said slots O and O', I push backward on said step which causes the bolts 8 and 8' and hangers b and b' to move up the inclined slot, then through the horizontal portion of said slots O and O', to again drop into place in the upper perpendicular section of said slots O and O', as shown in Fig. 3. When I wish to again use the step I lift up on said step D, raising the projecting ends or hangers b and b' and bolts 8 and 8', up in slots O and O', then pull said step D and the hangers b and b' toward me along said slots O and O', then lower said step with the hangers b and b', guided by slots O and O', into place, to hang from the lower step F as before. Thus I have readily accomplished great economy of space and absolute security in its hanging position for said third step. It will be also noted that all parts are shaped in curved angles and hence no projections exist to catch clothing or interfere with the progress of persons up and down said steps.

Having thus described my invention, what I claim as new and for which I desire Letters Patent is as follows:

1. In combination with a stationary step, an auxiliary movable step, guides for said movable step attached to said stationary step and mounted upon the top surface thereof and provided with downwardly projecting extensions at their upper ends, and hangers for said movable step slidable in said guides and into said extensions, whereby said auxiliary step may be moved from a position below the lowermost step to a position on top of said lowermost step and can be locked in position on said step by the downwardly projecting extensions.

2. The combination with the stationary steps of a car of an auxiliary movable step, hangers for said auxiliary step, guides for the hangers, said guides being mounted upon the top surface of the stationary steps and slotted to receive said hangers whereby the auxiliary step may be moved from a position

below the lowermost stationary step to a position on top of said lowermost step.

3. The combination with the stationary steps of a car of slotted guides mounted upon the top surface of said steps, hangers 5 slidably mounted on the guides, an auxiliary step carried by said hangers, the slots in the guides being shaped to guide said hangers to permit said step to be moved 10 from a position below the lowermost stationary step to a position on top of the downward stationary step.

4. The combination with the stationary steps of a car of guides each comprising two 15 base members joined by an inclined portion, one of said base members being mounted upon the top surface of the lowermost stationary step of the car and the other of said base members being mounted upon the

top surface of the next higher stationary 20 step; said base members and inclined portion being provided with slots in which are slidably mounted hangers carrying an auxiliary step, said hangers when positioned in the slot in the lowermost base members serving 25 ing to support the auxiliary step in operative position below the lowermost stationary step and when positioned in the slot in the uppermost base members serving to position said auxiliary step on top of the 30 lowermost stationary step in inoperative position.

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

JEROME N. MARQUETTE.

Witnesses:

S. A. VALENTINE,
C. L. FANSEY.

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