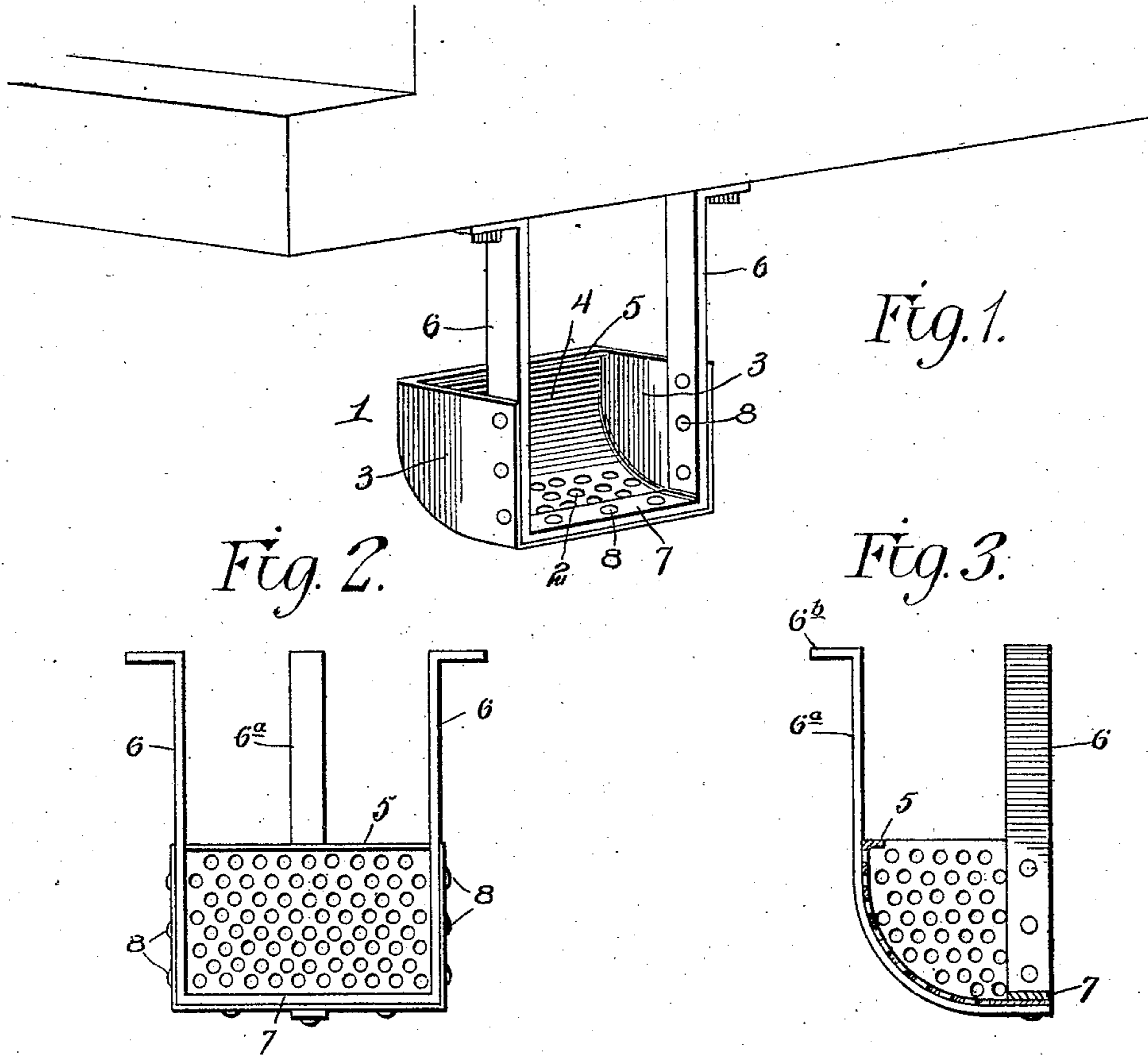


No. 849,955.

PATENTED APR. 9, 1907.

L. YEAGER, JR.
CAR STEP.

APPLICATION FILED SEPT. 29, 1906.



Witnesses
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LLOYD YEAGER, JR., OF CATAWISSA, PENNSYLVANIA.

CAR-STEP.

No. 849,955.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed September 29, 1906. Serial No. 336,752.

To all whom it may concern:

Be it known that I, LLOYD YEAGER, Jr., a citizen of the United States, residing at Catawissa, in the county of Columbia and State of Pennsylvania; have invented new and useful Improvements in Car-Steps, of which the following is a specification.

This invention relates to car-steps, more particularly designed for use on freight-cars, but capable of use in other relations.

One of the objects of the invention is to provide a step for use by brakemen and others on freight-cars which will reduce the chances of accident in boarding a car.

The ordinary stirrup-like steps on freight-cars lead to many accidents, owing to the fact that the brakeman in boarding a car is liable to overreach the step and to permit his foot to pass through between the side bars and over the tread of the step and be injured by being dragged along with the train. These stirrup-like steps in common use on freight-cars are liable to collect snow and ice upon the tread-surface, and thus have a tendency to permit the foot to pass over the same or to slip off.

My invention has for its purpose to provide a safety-step for freight-cars in which provision is made for permitting the snow and ice to pass through the same and to also provide means for preventing the foot passing through the step.

The foregoing objects and advantages are attained by means of the construction set forth in the accompanying drawings, in which—

Figure 1 is a perspective view of a step made in accordance with my invention and showing the manner in which it is supported upon the end of a freight-car. Fig. 2 is a front elevation of a step of slightly-modified form shown detached from the car. Fig. 3 is a front to rear section of the same.

Referring to Fig. 1 of the drawings, the numeral 1 designates a car-step made of a single piece of sheet metal, the bottom portion of said step having a series of perforations 2 therein to permit rain or snow to pass through the same. The ends 3 of the step and the

back portion 4 are curved upwardly, as shown, and a strengthening-flange 5 is formed upon the upper rear edge of the step. The front edge or bearing portion of the step is flat, and the ends 3 are bent at right angles thereto. The supporting-arms 6 extend down inside the step, and connecting said arms is a tread-surface 7, said arms and tread-surface being secured rigidly to the step by rivets 8, the inside heads of said rivets being countersunk within the arms and tread portion thereof.

Referring to Figs. 2 and 3, the body portion of the step is made of foraminous sheet metal 1^a, and a metal supporting-arm 6^a is secured centrally on the outside of the step and extended upward in contact with the outer surface thereof and at its upper end is provided with a securing-lug 6^b.

From the foregoing it will be obvious that a step made in accordance with my invention will prevent the collection of snow and ice upon the tread-surface thereof and will also prevent the foot of the user from extending through the step when boarding a car. The flange 5 will stop the foot from sliding upward in the step, and the tread-surface 7 will provide a stop for the heel of the shoe.

A car-step made in accordance with my invention can be produced at comparatively slight cost, can be quickly secured in place upon the car, and will prevent many accidents to brakemen and others boarding a car while in motion.

Having thus described the invention, what is claimed as new is—

A car-step formed of a single piece of foraminous metal provided with a curved back portion and angular ends, supporting-arms secured inside said step, said supporting-arms being connected by a tread portion at the front edge of the step, substantially as described.

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

LLOYD YEAGER, JR.

Witnesses:

L. C. MENSCH,
PERRY HEACOCK.