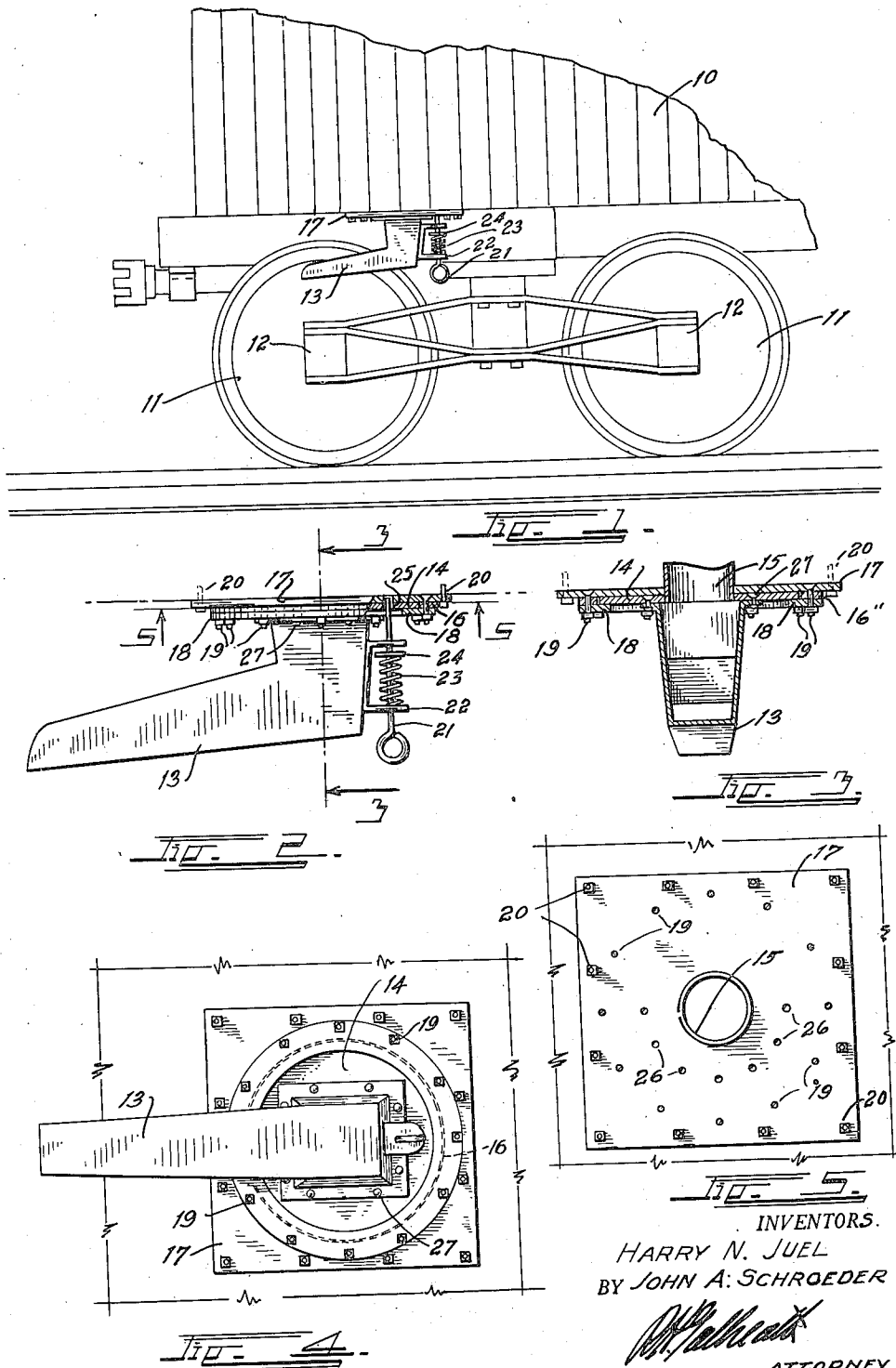


May 11, 1948.

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DRAIN SPOUT FOR REFRIGERATOR CARS

2,441,292

Filed Oct. 11, 1944



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2,441,292

DRAIN SPOUT FOR REFRIGERATOR CARS

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Application October 11, 1944, Serial No. 558,212

1 Claim. (Cl. 137—111)

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This invention relates to a drain spout for the ice bunkers of refrigerator cars, and has for its principal object the provision of an adjustable spout which can be turned and locked to direct the drainage in any desired direction. In the usual refrigerator car the drainage water from the bunkers is blown by the wind of the train's motion upon the journals and boxes of the trucks where it interferes with the lubrication of the latter often causing burned out bearings and other damage.

With the use of this invention, the drains can be adjusted in accord with the direction of travel of the train so as to throw the drainage to the windward of the boxes, thus preventing contamination of the latter.

Other objects and advantages reside in the detail construction of the invention, which is designed for simplicity, economy, and efficiency. These will become more apparent from the following description.

In the following detailed description of the invention, reference is had to the accompanying drawing which forms a part hereof. Like numerals refer to like parts in all views of the drawing and throughout the description.

In the drawing:

Fig. 1 is a fragmentary side view of a typical refrigerator car illustrating the position of the invention thereon.

Fig. 2 is an enlarged side view of the improved drain spout.

Fig. 3 is a vertical section therethrough, taken on the line 3—3, Fig. 2.

Fig. 4 is a bottom view thereof, looking upwardly.

Fig. 5 is a bottom view of the floor plate used for attaching the invention to the car.

A typical refrigerator freight car is indicated at 10 with its wheels at 11 and journal boxes at 12. Such cars are provided with drain tubes such as shown at 15, for draining away the water from the melting ice in the car bunkers. This improved drain spout is designed for protecting the latter from the drainage water. The improved spout is illustrated at 13. The spout is riveted or otherwise secured to a circular rotatable disc or plate 14 having a central opening for receiving the lower extremity of the standard car drain tube 15.

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The disc 14 is mounted within an annular spacing ring 16 and is held in place against a floor plate 17 by means of a flange ring 18. The flange ring and the spacing ring are bolted to the floor plate 17 by means of suitable assembly bolts 19. The disc 14 is not tightly clamped by the flange ring 18, but is free to be rotated on the latter about the spout 15. The floor plate 17 is secured to the bottom of the floor of the refrigerator car by means of bolts or lag screws 20.

It can be readily seen from the above, that the spout 13 may be swung around the tube 15 to any desired radial position. Means are provided for locking it in the desired position through the medium of a latch rod 21. The latch rod 21 passes through a guide clip 22 on the spout 13 and a compression spring 23, acting against a stop 24 on the rod 21, constantly urges the latter upwardly. The upper extremity of the rod passes through a guide hole 25 in the disc 14, and this upper extremity may be placed in any desired one of an arcuate series of latch holes 26, formed on the floor plate 17.

When the latch rod 21 is drawn downwardly it will release the spout 13 so that the latter can be rotated and, when the rod is released, it will enter one of the holes 26 to lock the spout in place.

It is intended that all the spouts 13 on the train be turned so as to face away from the direction of travel and outwardly from the wheel positions, so that the drainage water will be thrown away from the wheels of the car.

While a specific form of the improvement has been described and illustrated herein, it is desired to be understood that the same may be varied, within the scope of the appended claim, without departing from the spirit of the invention.

Having thus described the invention, what is claimed and desired secured by Letters Patent is:

The combination with a refrigerator car having a drain tube extending through the floor thereof of a floor plate secured beneath said floor about said tube, said plate having a central opening receiving said tube; an annular ring secured to the lower surface of said tube concentrically about said opening; a second flange ring secured against the first ring and projecting axially thereover; a rotatable disc having its periphery positioned between the flange ring and the plate,

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said disc having an axial opening; a drain spout secured to said disc and extending downwardly and outwardly from said opening; a guide clip secured to said spout; a latch rod extending vertically through said guide clip and through said rotatable disc, there being spaced-apart openings in said plate for receiving the extremity of said rod; and spring means forcing said extremity into said opening.

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