R. J. TUNSTALL.

Improvement in Refrigerator-Cars.

No. 131,722. Patented Sep. 24, 1872.

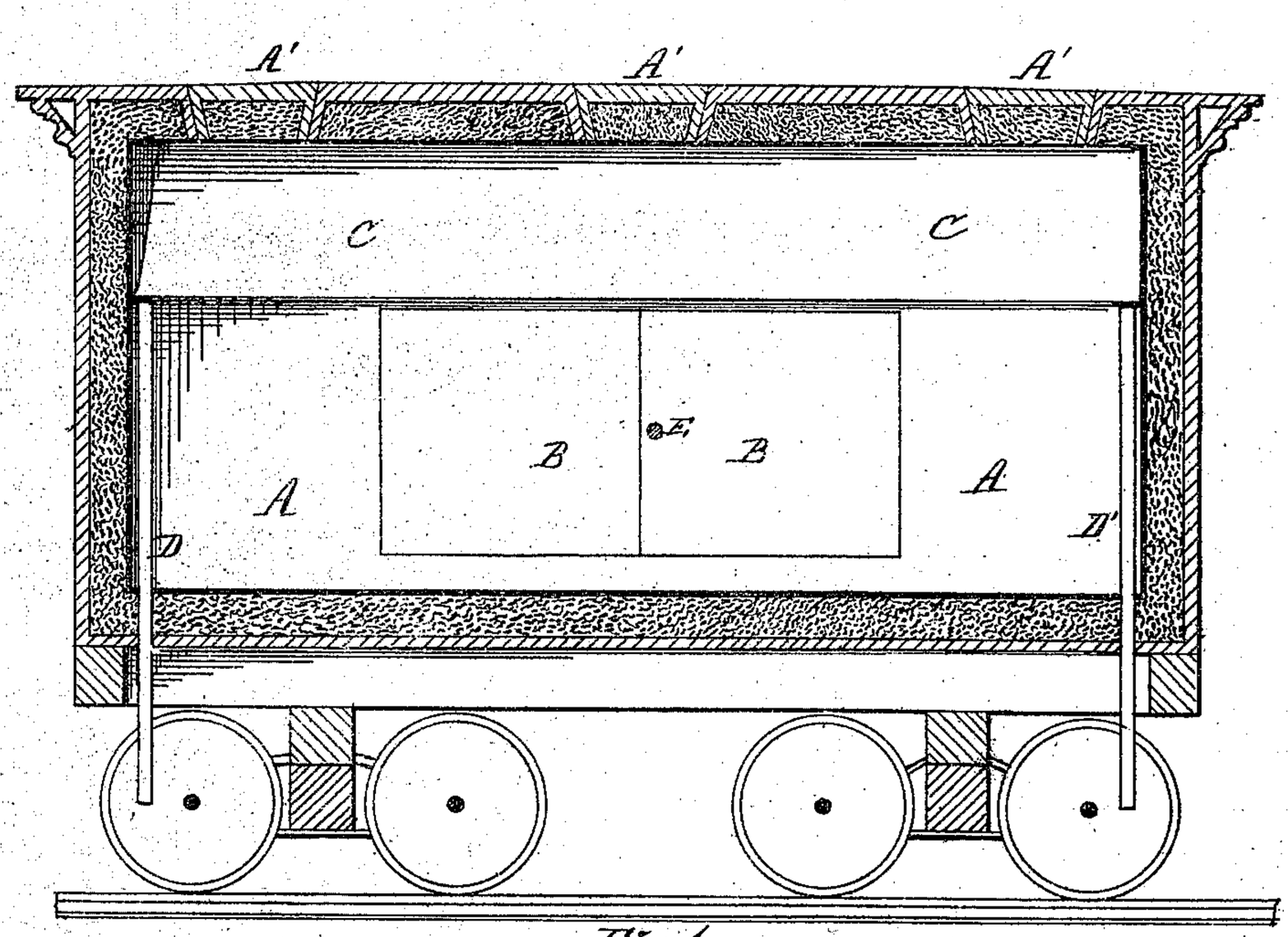

Fig. 1.

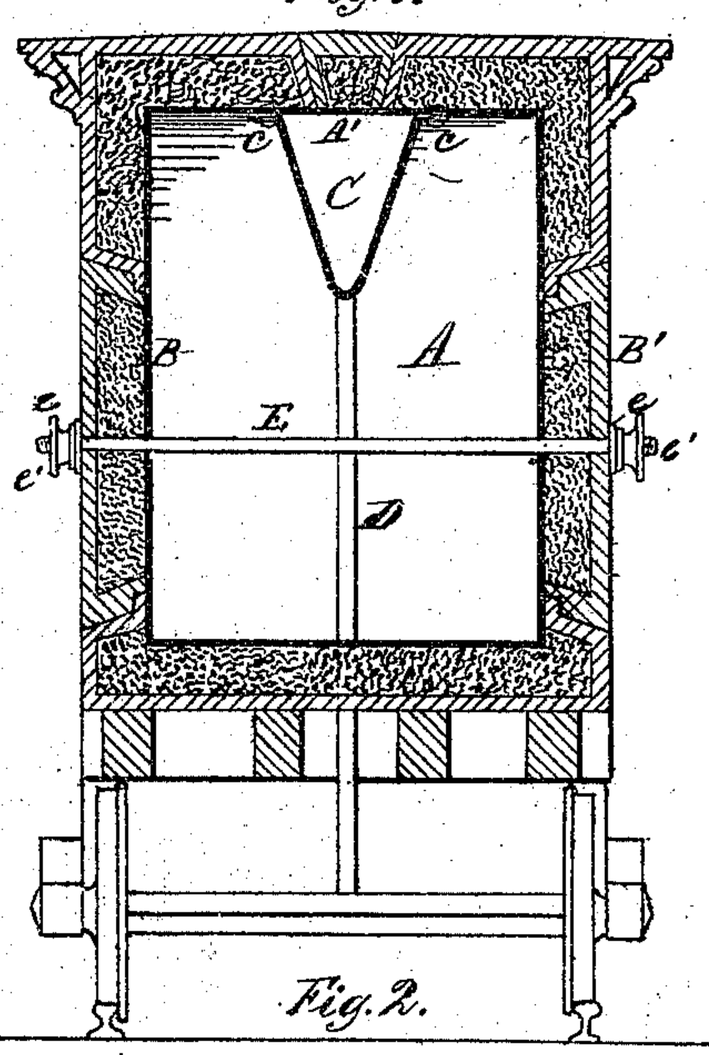

Fig. 2.

WITNESSES:

Robert Burns.

Jno Williams

INVENTOR:

Richard J. Tunstall

per. Keith & Co

attys.

UNITED STATES PATENT OFFICE.

RICHARD J. TUNSTALL, OF ST. LOUIS, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO DAVID W. BOULDIN, OF SEDALIA, MISSOURI.

IMPROVEMENT IN REFRIGERATOR-CARS.

Specification forming part of Letters Patent No. **131,722**, dated September 24, 1872.

To all whom it may concern:

Be it known that I, RICHARD J. TUNSTALL, of St. Louis, in the county of St. Louis and State of Missouri, have made certain new and useful Improvements in Refrigerator-Cars, &c.; and I do hereby declare that the following is a full and true description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention relates to refrigerator-cars for the preservation and transportation of meats and provisions, so as to deliver the same to the markets in a sound and healthy condition. The nature of this invention chiefly consists in providing the top of refrigerator-cars with a V-shaped ice-receptacle; also to certain detail construction of parts, all of which will now more fully be described.

To enable those herein skilled to make and use my said improvements, I will now more fully describe the same, referring to the accompanying—

Figure 1 as a longitudinal sectional elevation; to Fig. 2 as a transverse sectional elevation.

The car A is constructed and supported upon trucks, as ordinary. On top the car is provided with suitable doors A′ for charging the ice-receptacle with ice, the sides of the car being provided with doors B B′ for packing purposes. The car A, also its doors, are packed or filled, as usual, with suitable non-conducting material, the interior of the car being lined with galvanized sheet metal. Each of the top and side doors have their closing edges fitted with rubber weather-strips to form an air-tight fit. Inside the car A and attached to the top thereof by its flanges *c* is properly secured a V-shaped metal receptacle or trough, C, as indicated in Figs. 1 and 2. The arrangement of the V-receptacle C is made to extend the length of the car in line with the top doors A′, through which it is charged with ice. The said V ice-receptacle is made proportionate to the amount of space to be cooled, the object being to derive a refrigeration process or such a degree of temperature not below freezing-point yet still below the fermentation-point. At each opposite ends are connected to the V-receptacle C drain-pipes D D′, arranged to pass vertically through the car, (see figures,) and the waste from the ice-chamber C being facilitated in its escape by the gutter form of the bottom of said ice-chamber C. In order to secure the side doors B B′ when closed, a rod, E, is arranged longitudinally or transversely, its screw-threaded ends passing through the latch-bars *e*, a nut or screw-cap, *e′*, securing the closed doors, as shown in Fig. 2. The interior of the car is provided with hooks and stays to hang provisions. The V-shaped receptacle is adapted for the ceiling of packing-houses or chambers for refrigeration purposes.

Having thus fully described my said invention, what I claim is—

The car A, provided with a V-shaped ice-receptacle attached to its ceiling, top doors A′ and side doors B B′, secured by screw-rod E, the whole being arranged substantially as described for the purpose set forth.

In testimony of said invention I have hereunto set my hand.

RICHARD J. TUNSTALL.

Witnesses:

WILLIAM W. HERTHEL,

ROBERT BURNS.