

(No Model.)

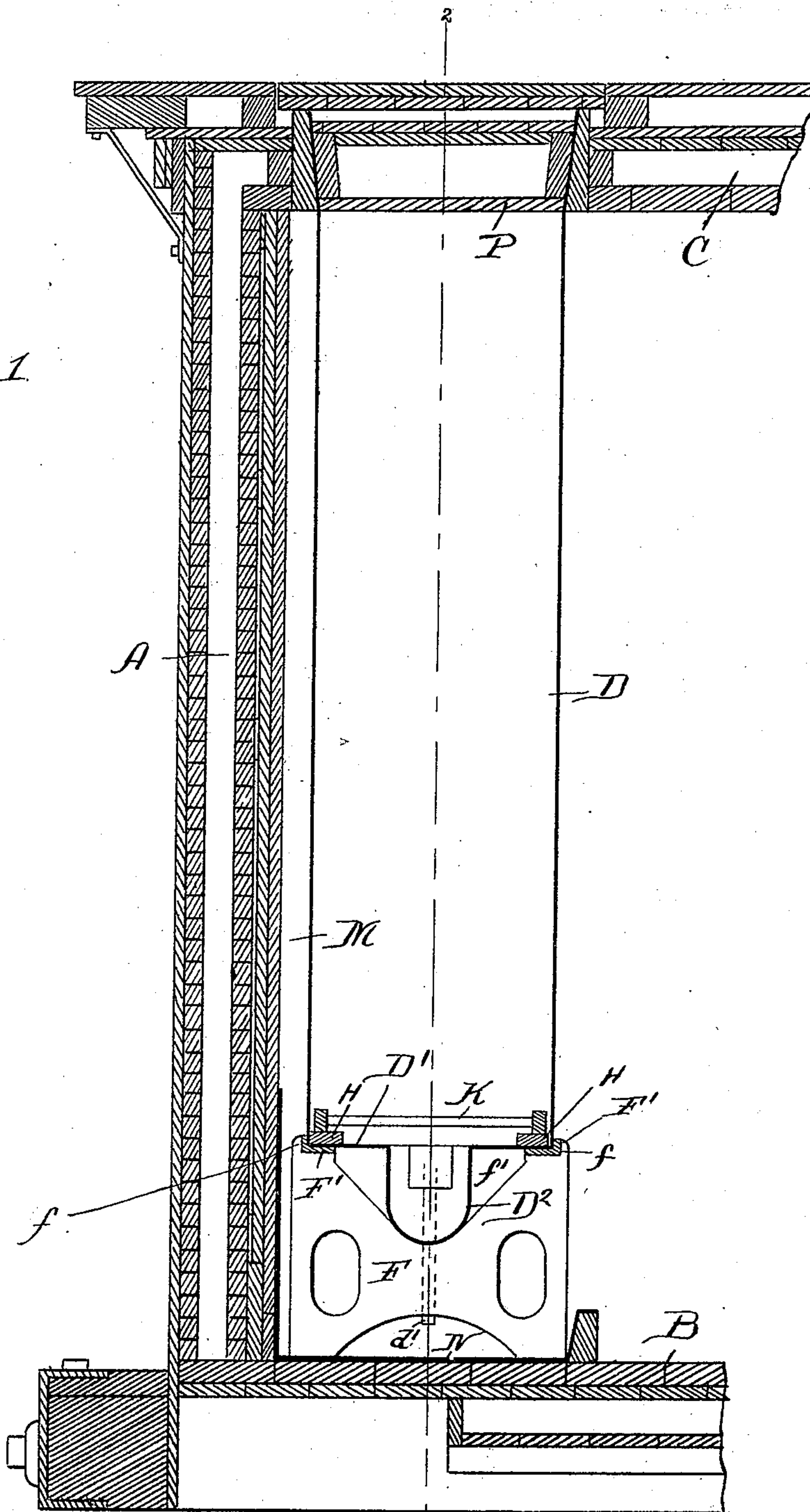
2 Sheets—Sheet 1.

E. R. HUTCHINS.
ICE TANK FOR REFRIGERATOR CARS.

No. 516,352.

Patented Mar. 13, 1894.

Fig 1



Witnesses:

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A. W. Munday,

Inventor:

Eugene R. Hutchins

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His Attorneys.

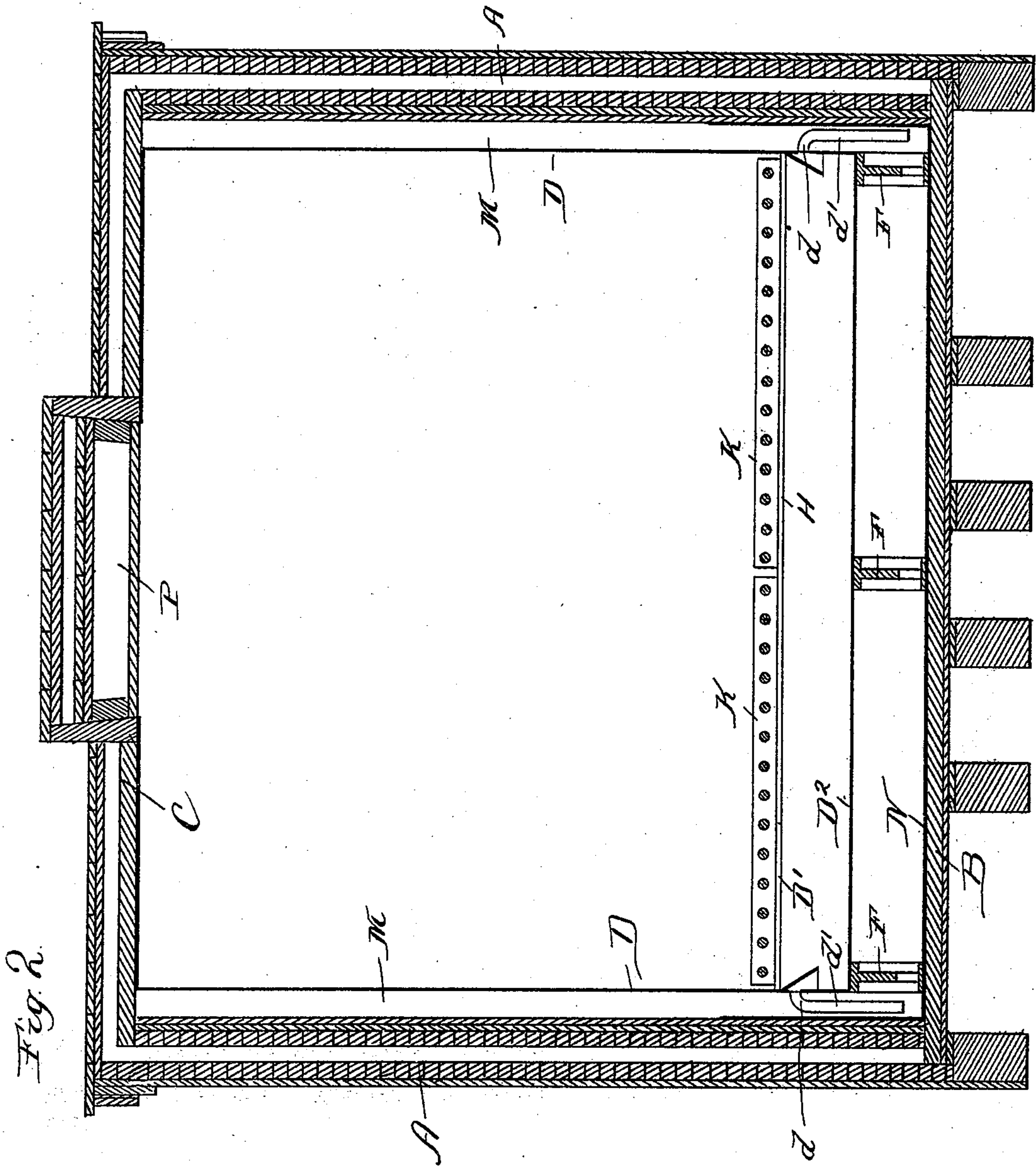
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2 Sheets—Sheet 2.

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ICE TANK FOR REFRIGERATOR CARS.

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Geo. B. Curtis
A. W. Munday.

Inventor:
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His Attorneys

UNITED STATES PATENT OFFICE

EUGENE R. HUTCHINS, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE HUTCHINS REFRIGERATOR CAR COMPANY, OF SAME PLACE.

ICE-TANK FOR REFRIGERATOR-CARS.

SPECIFICATION forming part of Letters Patent No. 516,352, dated March 13, 1894.

Application filed February 23, 1892. Serial No. 422,394. (No model.)

To all whom it may concern:

Be it known that I, EUGENE R. HUTCHINS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Ice-Tanks for Refrigerator-Cars, of which the following is a specification.

My invention relates to improvements in the construction of ice tanks or holders for refrigerator cars.

The object of my invention is to provide an ice tank of a simple and durable construction.

My invention consists in the novel devices and novel combinations of parts and devices herein shown and described and more particularly pointed out in the claims.

In the accompanying drawings which form a part of this specification and in which similar letters of reference indicate like parts, Figure 1 is a central vertical longitudinal section of a device embodying my invention, and Fig. 2 is a vertical section on line 2—2 of Fig. 1.

In the drawings A represents the double non-conducting walls of the car, B its floor and C its roof.

D is the ice tank of a rectangular shape and preferably made of galvanized iron. The bottom D' of this ice tank is furnished with an integral U-shaped trough D² to receive and collect the brine or water produced by the melting of the ice.

The ice tank D rests upon three supports F, preferably made of cast iron which are furnished with shoulders f at the top to receive angle bar seats F', which extend across the three supports F F F and thus serve to secure the same together as well as to form a smooth seat or socket for the bottom of the ice tank to rest upon. The supports or brackets F are each furnished with recesses f', or cut away, at their middle portion so as to give room for the water trough or depression D² in the bottom of the ice tank. Resting inside the ice tank are flat ice rack supporting bars H which extend parallel to the flange seat bars F' so that the ice rack K will rest upon these flat bars H and thus be prevented from doing injury to the bottom of the tank when the ice

is thrown or delivered therein. At each end of the trough D² there is a trap outlet or overflow opening d furnished with a drip pipe d' through which the water or brine may flow down into the drip pan N which rests upon the floor of the refrigerator car.

The ice tank holders or supports F F serve to leave an open space beneath the bottom of the tank for the free access of the air underneath and back of the tank, thereby utilizing the rear and bottom walls of the tank as cooling surfaces.

An air space M is left between the end wall of the car and the back wall of the ice tank and also between the side walls of the car and the end walls of the ice tank, so that the air may circulate all around the ice tank freely.

P is the plug for closing the open end of the tank and through which it is filled.

I claim—

1. In a refrigerator car, the combination with an ice tank D having bottom D' furnished with water or brine trough D², of supports F furnished with angle bar rails F' forming a seat for the ice tank, an ice rack and flat bearing bars H inside the tank upon which the ice rack rests, substantially as specified.

2. The combination in a refrigerator car of drip pan N, with ice pan supports F F F furnished with shoulders f and flanged rails or bars F', of an ice tank D having bottom D' furnished with water or brine trough D² and flat bearing bars H and ice rack K, substantially as specified.

3. The combination in a refrigerator car of drip pan N, with ice pan supports F F F furnished with shoulders f and flanged rails or bars F', of an ice tank D having bottom D' furnished with water or brine trough D² and flat bearing bars H and ice rack K, said water or brine trough being furnished with a trapped overflow opening at its end, substantially as specified.

EUGENE R. HUTCHINS.

Witnesses:

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EMMA HACK.