(No Model.)

C. P. JACKSON.

REFRIGERATOR CAR.

No. 282,196. Patented July 31, 1883.

Fig. 2.

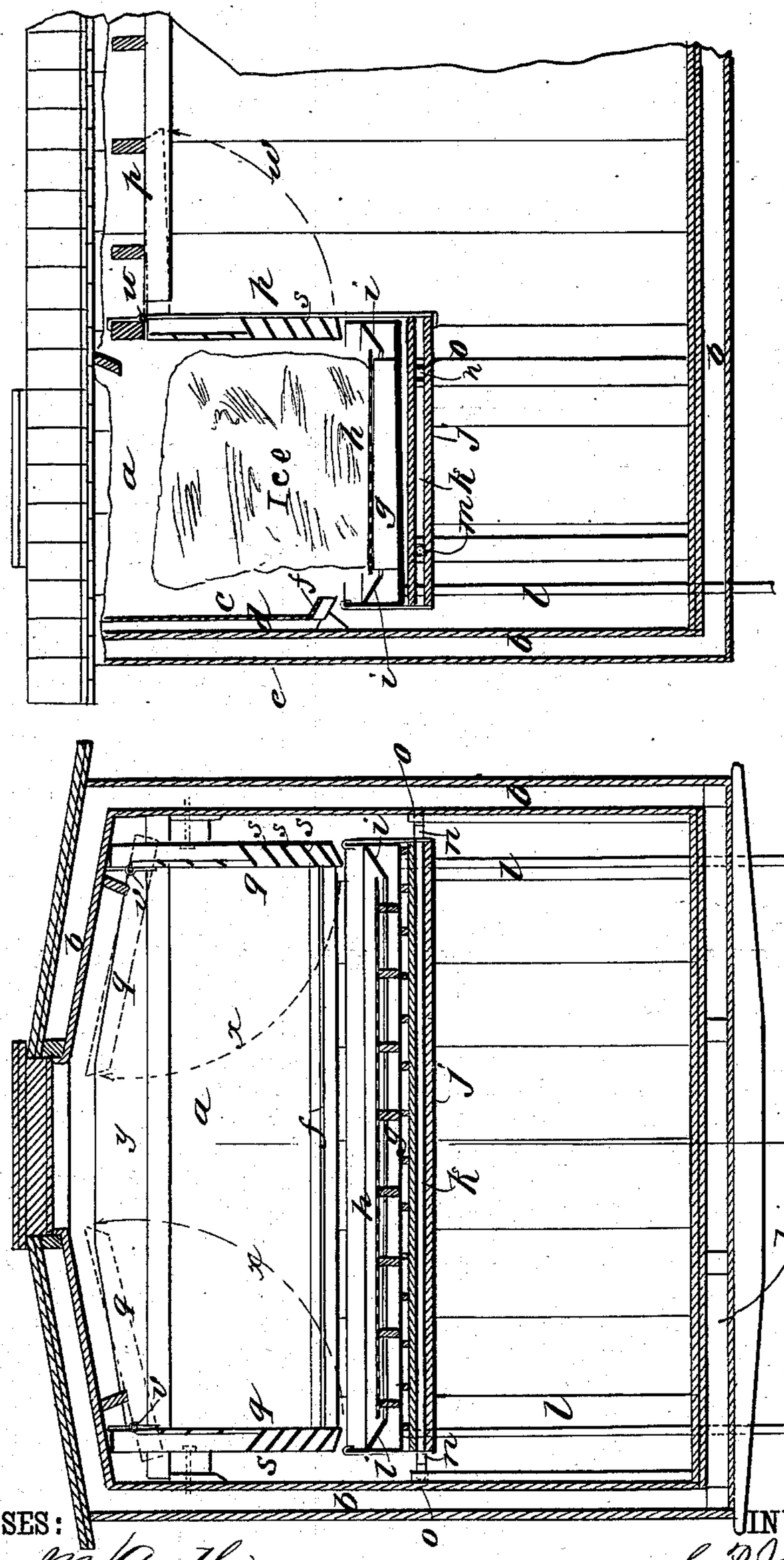

Fig. 1.

WITNESSES:

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CHARLES P. JACKSON, OF CHICAGO, ILLINOIS.

REFRIGERATOR-CAR.

SPECIFICATION forming part of Letters Patent No. 282,196, dated July 31, 1883.

Application filed May 9, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES PRINGLE JACKSON, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Refrigerator-Car, of which the following is a full, clear, and exact description.

My invention consists of the construction of ice-reservoirs or ice-chambers in refrigerator-cars so that the walls and bottom of the chambers or reservoirs may be folded or turned up against the wall and ceiling or top of the car at will, to increase the storage capacity of the car on return-trips, when the ice is not required, all as hereinafter fully described.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a transverse section of a refrigerator-car having an ice reservoir or chamber constructed according to my invention; and Fig. 2 is a longitudinal sectional elevation of a portion of the car, the section being taken on the line *x x* of Fig. 1.

I propose to arrange an ice-reservoir, *a*, in the upper part of each end of a refrigerator-car, the walls of which are insulated by dead-air spaces *b*, or other approved means, to prevent the conduction of heat through them. The back wall, *c*, of reservoir *a* is to be permanently attached to the end wall, *e*, of the car, with a space, *d*, between them for the circulation of air, to allow the warm air to ascend and pass over the ice to be cooled, and the lower edge, *f*, of said wall *c* is to project forward, to deliver the drip condensing on the wall above into the pan *g*, in which the ice or ice and salt are placed on a grate, *h*. The pan has inwardly-projecting flanges *i*, to prevent the water from slopping over, and rests on a floor, *j*, of the ice-chamber, having an insulating-space, *k*, and being arranged on the pivots *m*, so that it can swing up alongside of the back *c* when required, the outer or front portion of the bottom having studs *n*, projecting from its ends, to drop into rests *o* when the bottom is down, to support it in that position, said rests being so that the front of the pan will be supported a little higher than the back, to cause the water to flow out through waste-pipes *l*, of which there will be one connected at each corner, and extending down through the floor of the car for the escape of the waste water through traps or other means to prevent the air from drawing up through the pipes. These pipes will in practice be detachably connected to the pans in any approved way, so that they may be readily disconnected when the ice-chamber is to be folded up.

The front wall, *p*, and the end walls, *q*, which may consist of metal or other approved plates, or of slats *s*, fixed in frames and arranged to slope downward into the pan, are to be hinged to the car-top, as at *u* and *v*, the front being so that it will swing outwardly up to the ceiling, as indicated by the dotted line *w*, and the ends to swing inwardly, as shown by lines *x*, and all to be fastened in any approved way, whereby the space occupied by the ice-chamber may be largely economized when the car is to be loaded with freight that does not require to be cooled.

The slats *s* of the sides are to be so arranged that they will hold broken ice and salt, when it may be preferred to use that mixture instead of the ice alone.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. An ice chamber or reservoir, which may be made of metal or a wooden grating, located in the upper part of each end of a refrigerator-car, and having the bottom, front, and ends arranged to fold up to the side and top of the car, substantially as described.

2. In a refrigerator-car, an ice-chamber, the back wall, *c*, of which is attached to the end or side of the car, the bottom pivoted to supports, allowing it to fold up to said back wall, *c*, and the ends *q* and front *p* hinged to the car top or sides, so as to fold up and be secured to the top or sides of the car, substantially as described.

CHARLES PRINGLE JACKSON.

Witnesses:
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