Nov. 8, 1927. 1,648,830

N. M. SMALL

BASKET FOR ICE MAKING SYSTEMS

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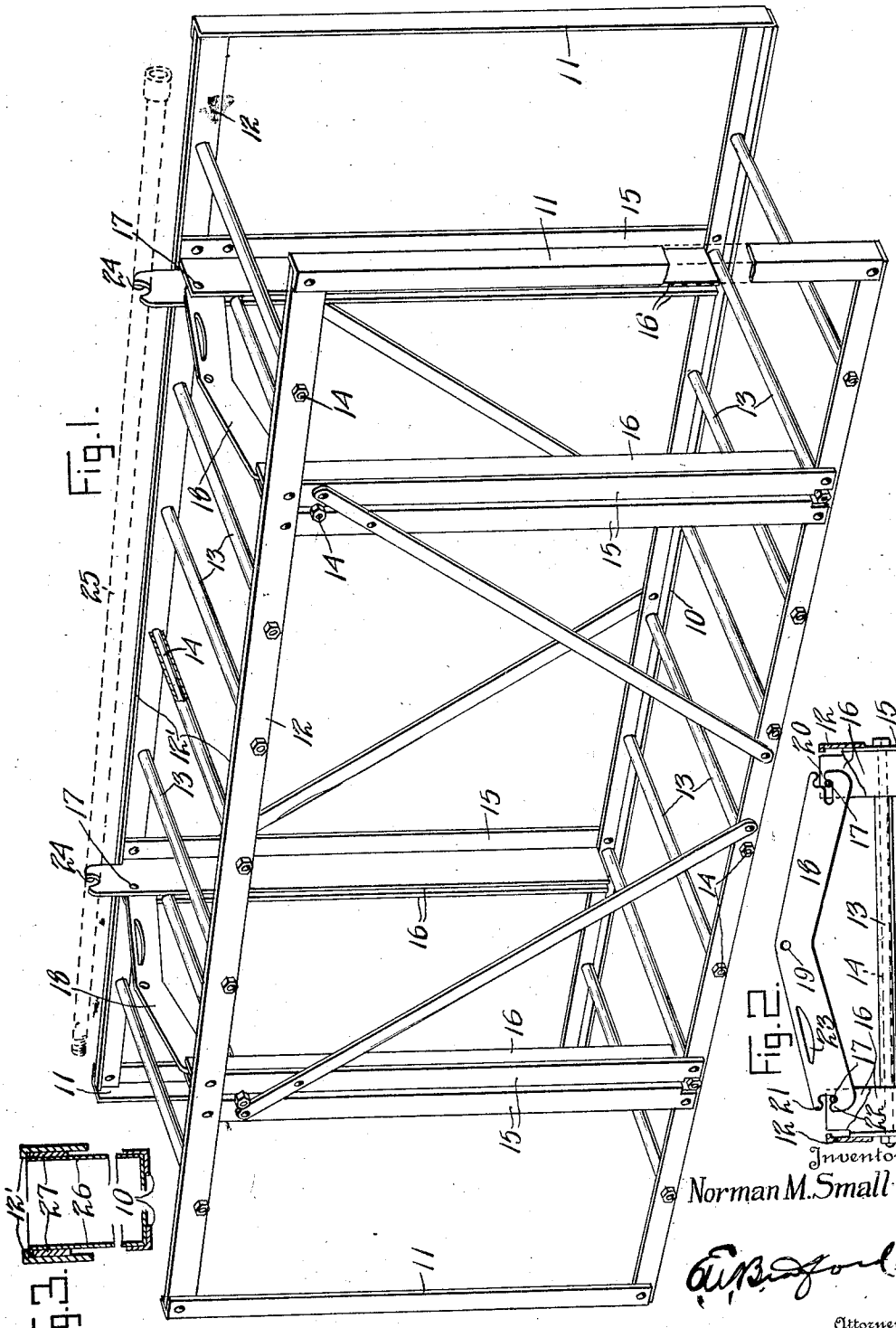


Fig. 1.



Fig. 3.



Fig. 2.

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# UNITED STATES PATENT OFFICE.

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## BASKET FOR ICE-MAKING SYSTEMS.

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My said invention relates to a basket for ice-making systems and it is an object of the invention to provide a device of this character which can be knocked down for convenience in shipping and storing so as to take up but little room and which can be set up by workmen with ordinary tools.

A further object of the invention is to provide lift beams for such baskets which may be conveniently attached to the baskets and are not liable to be disconnected accidentally, the lifting arrangements being such that the lift is from the bottom of the basket.

Referring to the accompanying drawings which are made a part hereof and on which similar reference characters indicate similar parts,

Figure 1 is a perspective of my improved device,

Figure 2, a fragmentary section showing a lift beam in side elevation, and

Figure 3, a reduced section showing a can in place.

In the drawings reference character 10 indicates the lower bars of the side frames, these bars being formed as angle irons having inwardly projecting flanges on which the ice cans rest. Bars 10 are connected by corner bars 11 of angle iron to upper bars 12. The bars 11 have side and end flanges forming guides to guide the basket into and out of a brine tank without danger of catching on the frame work when the baskets are inserted or withdrawn from such brine tank. The upper bars 12 have narrow flanges 12' extending inward as will be seen in Figure 2, these flanges extending just far enough to hook over the band 27 at the top of an ice can 26 and thus prevent the can from slipping out of the basket or frame when the same is tilted to dump the ice, the cans remaining in the frame permanently, except for needed repairs, etc.

The bars 10, 11 and 12 provide the essential members of the side frames and may be permanently fastened together by welding or riveting or in any other desirable manner, braces being added along the sides if desired. It is desirable, however, for convenience in storing and shipping that the frames remain separate until the baskets are to be prepared for use and for this reason I have provided ferrules 13 for spacing the side members from each other with bolts 14 passing through the ferrules and through the upper and lower bars of the side members for attaching the parts of the basket to each other. The bolts and ferrules are spaced apart from each other to provide compartments for receiving the cans between them, the basket shown in the present illustration being adapted to receive nine cans.

Upright angle irons 15 are provided at intervals along the sides, these irons being preferably arranged in pairs with parallel inwardly directed flanges 16, and the outer flanges being rigidly secured to the upper and lower bars 10 and 12. Pins 17 extend through the inwardly directed flanges (Fig. 2) these pins serving for attachment of lift beams 18.

In a preferred embodiment of the invention the lift beams are formed of flat bars of metal which may be stamped out or otherwise formed and which are slightly angular with holes 19 at the highest part of the angle to receive the hook of a hoist or crane. At each end the lift beam is provided with vertical slots having narrow entrances at 20 so located as to provide upper hooks 21 and lower hooks 22 coacting with the pins 17. The purpose of the lower hooks for holding the pins 17 will be obvious and that of the upper hooks is to provide against accidental detachment of the lift beam when the beam is lowered by slackening the cable of the crane. The peculiar formation of the lower hooks also serves to prevent disengagement of the hooks if the crane should pull at an angle instead of straight up. The lift beams are provided with hand grips 23. One of the slots is extended back to a considerable distance from the end to provide means for engagement of both the hooks in the position shown in Figure 2 and preferably such slot is at the opposite end of the lift beam from the hand grip.

The beams 15 at one side of the basket are extended upward and have notches at 24 which may be formed in their upper ends or in their sides for supporting an air header 25. It will be evident that the means for holding the header may be formed otherwise than as shown, if preferred.

Various modifications of my device will be obvious to those skilled in the art and therefore I do not limit myself to what is

shown in the drawings and described in the specification but only as indicated in the appended claims.

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent, is:

1. A can basket for ice making machines comprising frames having upper and lower side members with portions for supporting ice cans, one set of side members having portions adapted to engage over the top of the ice cans to secure them in position, bars connecting the upper and lower side members, and cross bars connecting said side members, substantially as set forth.

2. A can basket for ice making systems comprising a frame including upper and lower side members, upright bars connecting the upper and lower side members, a connection between said side members, and one or more detachable lift beams for connection directly with said bars, substantially as set forth.

3. A can basket for ice making systems comprising spaced side frames, each having upper and lower members, corner members connected with the upper and lower members and defining the sides and ends of the basket and arranged to engage the sides and ends of a tank, a connection between said side frames, upright members attached to the lower members, pins on the members, and lift beams adapted for detachable connection with said pins, substantially as set forth.

4. A can basket for ice making systems including spaced side frames, each having upper and lower members, upright bars connecting the upper and lower members, upright members at opposite sides of the basket attached to the lower members, pins on the members, and unitary lift beams having slots for said pins with narrow entrances providing hooks to prevent accidental disengagement, substantially as set forth.

5. In a can basket for ice making systems, side frames including upper and lower members, upright bars attached to the upper and lower members, a connection between said side frames, certain of said upright bars having extensions above the basket for supporting a header, substantially as set forth.

6. A lift beam for ice can baskets comprising a bar having a hook at each end, means midway between the hooks for attachment of a hoist, and a hand-grip formed adjacent one end of the beam, substantially as set forth.

7. In a knock-down can basket for ice making machines adapted for supporting a set of ice cans, side frames comprising upper and lower members, the lower members being provided with inwardly extending ice can supporting portions, the upper members having portions arranged to engage over the upper edges of the cans to secure them in place, and transverse bolts connecting the side frames and arranged to support the ice cans, substantially as set forth.

8. In a can basket for ice making systems, side frames including upper and lower members, spaced upright pairs of members connecting said upper and lower members, upright bars connecting the upper and lower members, a connection between said frames, said upper members being provided with inwardly extending portions, pins on said inwardly extending portions, and lift beams for detachable connection with said pins, substantially as set forth.

In witness whereof, I have hereunto set my hand at Waynesboro, Pennsylvania, this 20th day of February, A. D. nineteen hundred and twenty-five.

NORMAN M. SMALL.