H. LITTLE.

DEVICE FOR ELEVATING ICE.

No. 68,218. Patented Aug. 27, 1867.

Fig. 1.

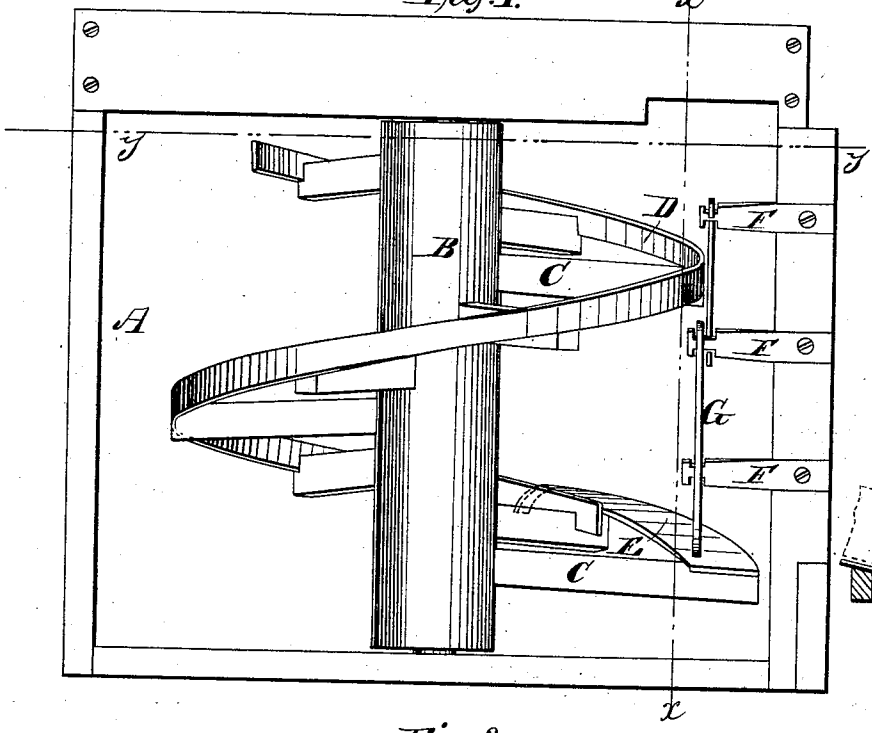


Fig. 2.

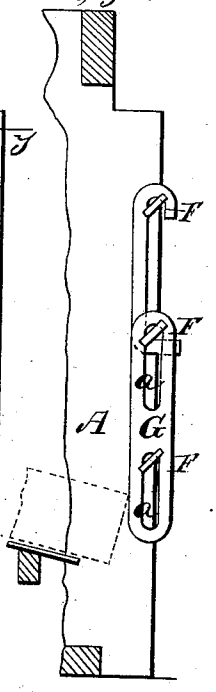
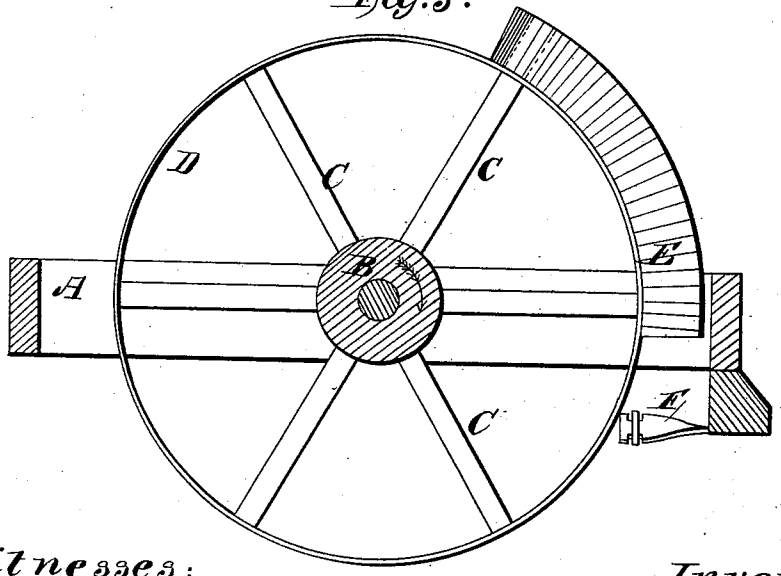


Fig. 3.



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HENRY LITTLE, OF MIDDLETOWN, NEW YORK.

Letters Patent No. 68,218, *dated August* 27, 1867.

IMPROVED DEVICE FOR ELEVATING ICE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN.

Be it known that I, HENRY LITTLE, of Middletown, in the county of Orange, and State of New York, have invented a new and improved Device for Elevating Ice; and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements, by which my invention may be distinguished from all others of a similar class, together with such parts as I claim, and desire to have secured to me by Letters Patent.

This invention relates to a new and improved device for elevating ice from the river, pond, or lake where it is cut into the ice-house contiguous thereto, and is an improvement on a device for the same purpose for which Letters Patent were granted to me bearing date May 21, 1867.

The present improvement consists in the application of a curved platform to the lower end of the screw-elevator, and in the employment or use of a sectional raising and falling bearing to the lower part of the frame of the device, whereby the adjusting or placing of the cut or floating ice on the screw is greatly facilitated. In the accompanying sheet of drawings—

Figure 1 is an elevation of my invention.

Figure 2, a vertical section of the same, taken in the line *x x*, fig. 1.

Figure 3, a horizontal section of the same, taken in the line *y y*, fig. 1.

Similar letters of reference indicate like parts.

A represents an upright frame which supports a vertical shaft, B, provided with horizontal radial arms, C, attached in a spiral line, and having a rim, D, secured to their outer ends. This shaft, with its arms and the rim attached, forms the screw-elevator, which is precisely the same as shown and described in the Letters Patent of the original invention, with the exception that the rim D does not extend fully down to the lower end of the elevator, it being discontinued between the two lower arms C, and a comparatively broad curved platform, E, attached in its place, as shown in figs. 1 and 3. To one side of the upright frame A there are attached horizontal arms, F, on the two lower ones of which there is fitted an upright bar, G. This bar G has oblong vertical slots, *a*, made in it, through which the arms F pass, and the slots admit of the bar G rising and falling to a certain extent. The bar G is in line with the path of rotation of the curved platform E, and it will be seen that the vertical movement allowed said bar admits of the cut ice, whether floating or otherwise, being readily placed on the curved platform E, as the bar will rise or may be raised to admit of the cakes of ice being shoved underneath it upon the platform. If the bar G were fixed as in the original invention, the cakes would require to be shoved around it to its rear side, and this would be attended with considerable labor and expense.

The operation of the device so far as the elevation of the ice is concerned is precisely the same as described in my Letters Patent previously referred to, the bar G corresponding to the lower part of the "bearing E," as referred to in said Letters Patent.

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

1. The curved platform E applied to the screw-elevator, substantially as and for the purpose set forth.

2. The movable bar G applied to the frame of the device when used in connection with the screw-elevator, substantially as and for the purpose specified.

HENRY LITTLE.

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