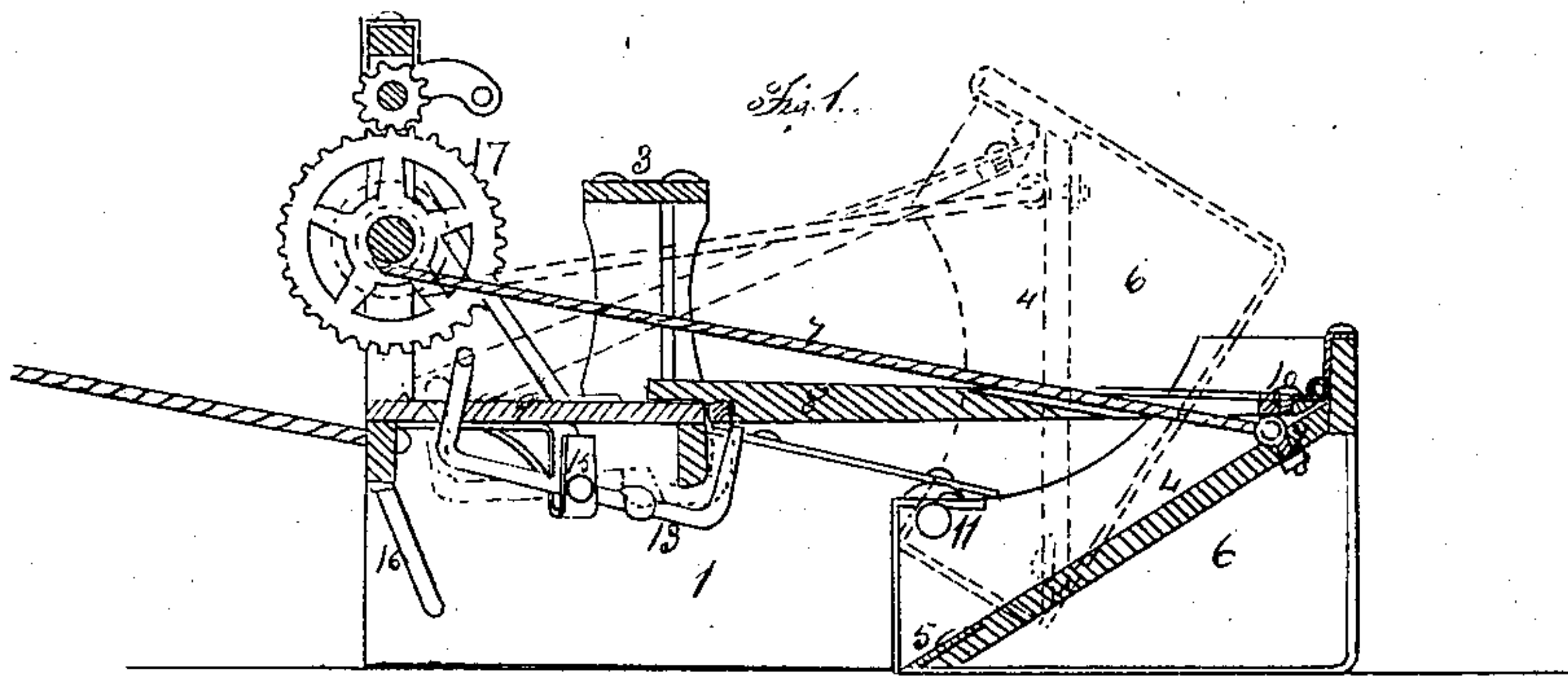


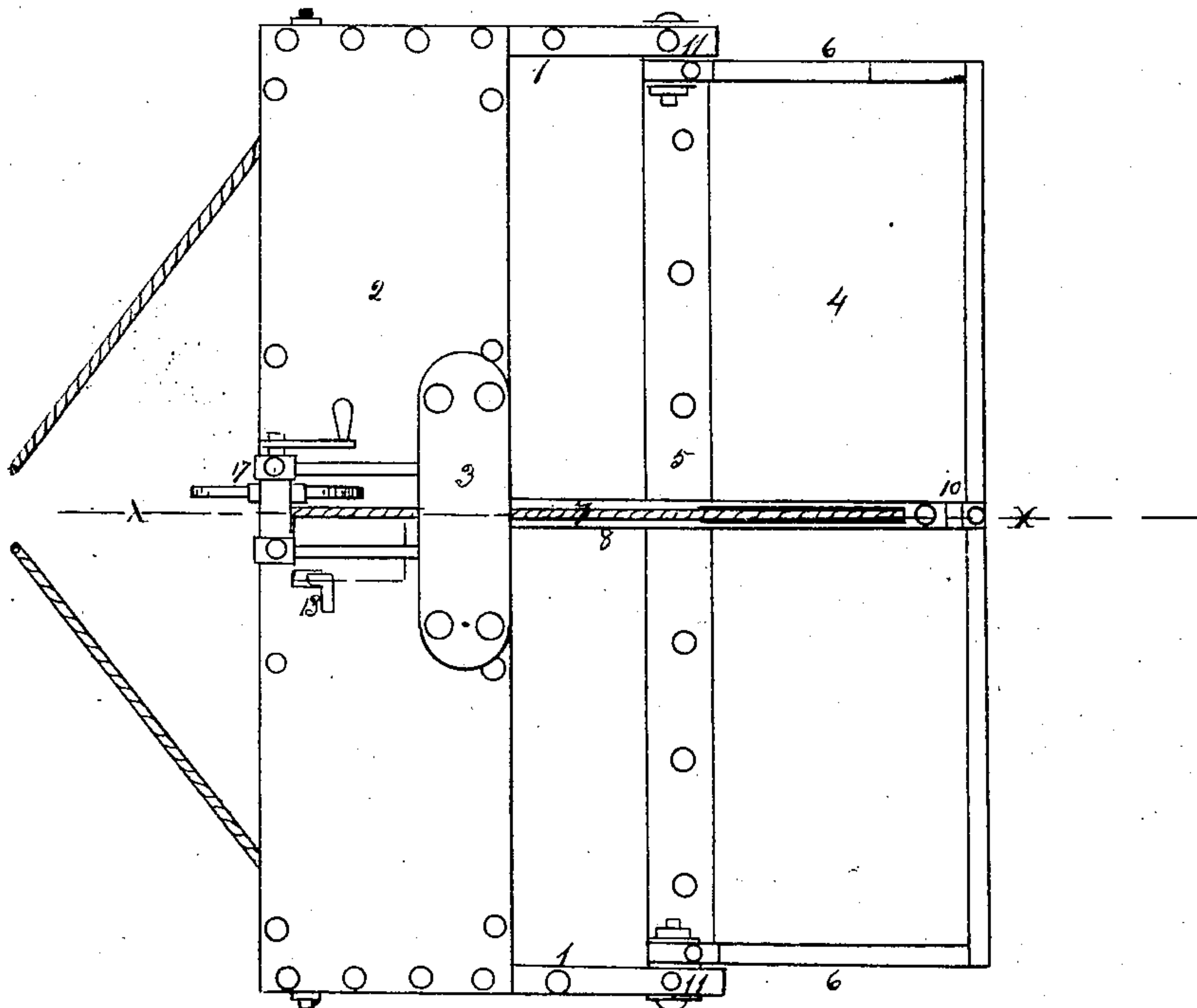
*S Lewis*  
*Snow Cleaner*

*No. 75028*

*Patented Mar 3 1868*



*Fig. 2.*



*Witnesses*  
*W. C. Clark*  
*W. A. Morgan*

*Samuel Lewis*  
*per Wm. L. G.*  
*attorneys*

# United States Patent Office.

SAMUEL LEWIS, OF BROOKLYN, NEW YORK.

*Letters Patent No. 75,028, dated March 3, 1868.*

## IMPROVED SNOW-CLEARER.

*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, SAMUEL LEWIS, of Brooklyn, Kings county, New York, have invented a new Improved Snow-Clearer; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

This invention relates to a new and improved device to be used for the removal of snow and cut ice from the surface of ice-lakes and skating-ponds.

The invention consists in a peculiar construction of the machine, as hereinafter fully shown and described, whereby the snow or cut ice, as the machine is drawn along, is scraped up, and by a very simple manipulation on the part of the driver deposited in piles on the banks or sides of the lake or pond.

Figure 1 is a longitudinal vertical section of the machine, in the line  $x x$ , fig. 2.

Figure 2 is a top view, looking down upon the receiving-board 4, and showing the manner of connecting the receiver 6 with the frame or front part 1; also showing the upper portion of the latter.

Similar letters of reference indicate corresponding parts.

The general construction and operation of this implement are as follows: A strong frame, 1, 1 and 2, is made of any suitable wood, the top and sides secured firmly, as shown in fig. 2, with the additional braces seen at 16. To this frame are attached a seat, 3, windlass and gearing 17, lever 13, spring 14, and hanger 15. To this frame is attached the receiver or box 6 6, by the pivots or bolts 11. The receiving-board 4 forms an inclined plane, as seen in fig. 1, is furnished at its lower edge with a metallic knife or scraper, 5; is furnished with the eye-bolt 9, near its upper edge, while still further up the brace 8 is hinged to it, as shown at 10. The brace 8 is slotted through, as shown at figs. 1 and 2, in order to allow the passage and play of the chain 7 during the operation of the machine. The chain 7 is attached to the eye-bolt 9, at one end, and to the windlass at the other, while the brace 8 is notched out at its front end, so as to rest on the top of the frame, under the seat, as seen in fig. 1.

The operation is as follows: The horse being hitched, and the driver seated, the machine is driven into the snow, the knife 5 setting close down to the surface. As the apparatus advances, the snow or cut ice which has collected at the foot of the inclined plane or receiving-board 4, is forced out by that which it is still meeting, till the receiver or box 6 is full, when the driver heads for the bank of the pond, arriving at which he presses with his foot upon the lever 13, fig. 2, which throws up the front end of the brace 8, at the same time making the requisite number of turns of the windlass to bring the loaded part of the machine into the position indicated by the red lines in fig. 1, when the load will be discharged. The driver then removes his foot from the lever, and his hand from the windlass, and the receiver 6 and brace 8 regain their original position, while the machine, without changing its speed, heads for another load. It will be seen that the brace 8 prevents the tilting of the receiver till its front end is lifted, and that the slot near its rear end allows free play for the chain 7 while the load is being discharged, the spring 14 preventing the action of the lever on the brace till the foot of the driver produces the elevation of the latter, as described.

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

The combination of the tilting rear box 6, frame 1, 2, brace 8, windlass 17, and lever 13, all arranged and operating substantially as described for the purpose specified.

The above specification of my invention signed by me, this 18th day of January, 1868.

Witnesses:

WM. F. McNAMARA,  
ALEX. F. ROBERTS.

SAMUEL LEWIS.