

(No Model.)

T. W. BOTTS.

ICE SCRAPER.

No. 259,997.

Patented June 27, 1882.

Fig 1.

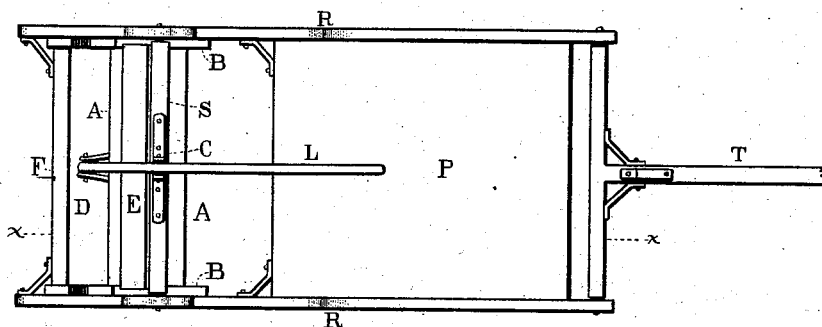


Fig. 2.

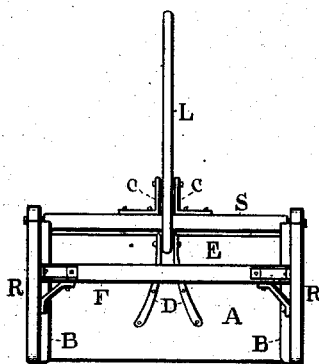
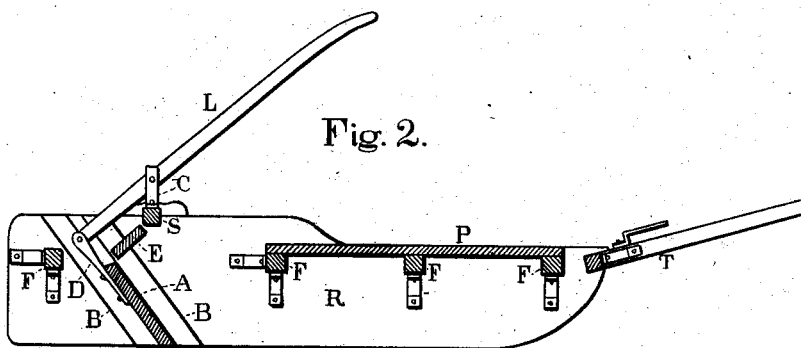


Fig. 3.

Witnesses:
H. W. Wells
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Inventor,
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per Artemus B. Upham,
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UNITED STATES PATENT OFFICE.

THOMAS W. BOTTS, OF PEORIA, ILLINOIS.

ICE-SCRAPER.

SPECIFICATION forming part of Letters Patent No. 259,997, dated June 27, 1882.

Application filed April 10, 1882. (No model.)

To all whom it may concern:

Be it known that I, THOMAS W. BOTTS, of Peoria, in the county of Peoria, in the State of Illinois, have invented an Improved Ice-Scraper; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a plan; Fig. 2, a sectional side view at *x x*, Fig. 1; Fig. 3, an end view from rear.

This ice-scraper consists essentially of two solid sled-runners having extending between them an inclined movable board or scraper.

R R are the runners, having the rear half of each somewhat higher than the rest and being joined together by beams F and suitable braces.

The forward part of the sled is covered by a platform, P, and the whole is drawn by a tongue, T.

At the inside of the rear end of each sled-runner R are secured, at angles of about forty-five degrees with the ground-line, guide-bars B B. In these guide-bars the board A, which serves as the scraper, is made to slide freely. This scraper A is made to move down toward or up and away from the ice by means of the lever L, which is pivoted to the metal strips D, fastened to said scraper.

The shaft S, having its bearings at its ends upon the runners R R, has fastened at its center two angle-irons, C C, to which is pivoted the lever L. By this arrangement the lever can move forward or backward sufficiently to

adapt itself to the varying positions of the scraper A.

To prevent the snow from being crowded up over the scraper A, the board E is fastened just above the top edge of said scraper, when at its lowest position, by having its ends secured to the runners.

In operating this ice-scraper I drive along over the desired place, holding up the lever L, if I wish to scrape the ice very cleanly, until a large quantity has been accumulated in front of the scraper A and between the runners, when by pulling down on the lever L the scraper A is elevated sufficiently to allow all the collected snow to remain in a heap, while the ice-scraper is driven on.

What I claim as my invention, and for which I desire Letters Patent, is as follows, to wit:

1. The two solid runners R R, joined by suitable cross-beams, and having guide-bars B B, in combination with the scraper A, movable in said guides B B by means of the lever L, for the purpose set forth.

2. The solid runners R R, joined by cross-beams F, and having platform P, in combination with the scraper A, movable in guides B B, attached to said runners R R, and the lever L, pivoted to angle-irons C on the shaft S, substantially as and for the purpose specified.

In testimony that I claim the foregoing invention I have hereunto set my hand this 6th day of April, 1882.

THOMAS W. BOTTS.

Witnesses:

ENOCH P. SLOAN,

RICHD. A. GOLDSBROUGH.