

(No Model.)

J. F. LUCAS.  
ICE SCRAPER.

No. 567,318.

Patented Sept. 8, 1896.

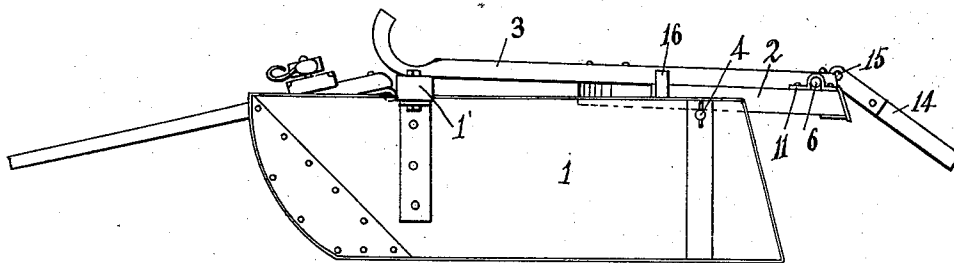


Fig. 1

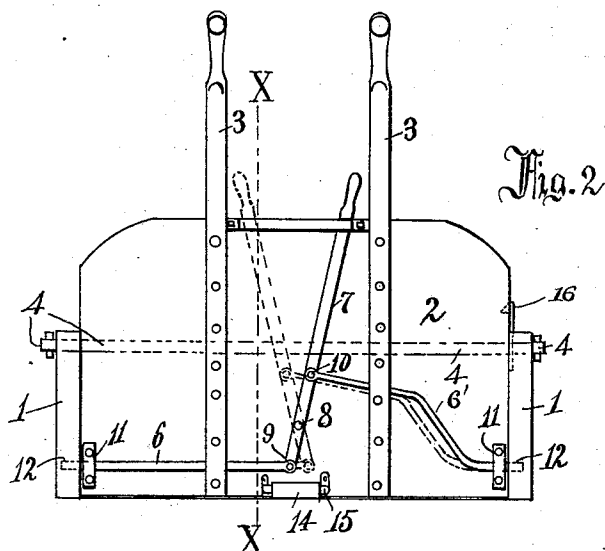


Fig. 2

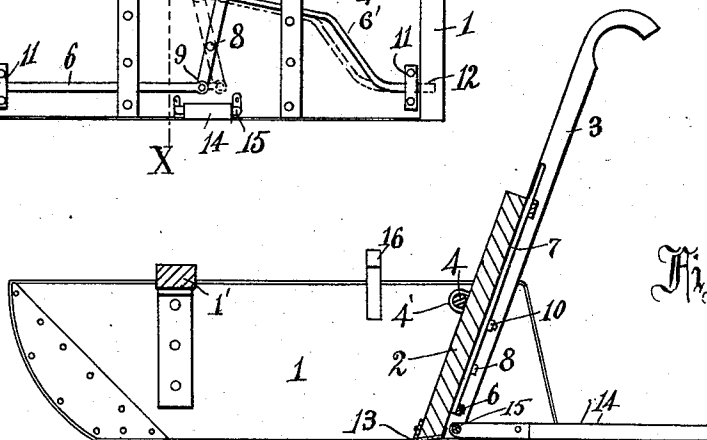


Fig. 3

WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN F. LUCAS, OF SAGINAW, MICHIGAN.

## ICE-SCRAPER.

SPECIFICATION forming part of Letters Patent No. 567,318, dated September 8, 1896.

Application filed April 11, 1896. Serial No. 587,124. (No model.)

### *To all whom it may concern:*

Be it known that I, JOHN F. LUCAS, a citizen of the United States, residing at Saginaw, in the county of Saginaw and State of Michigan, have invented certain new and useful Improvements in Ice-Scrapers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to ice-scrapers; and it consists in the peculiar construction and arrangement and combination shown and described.

Figure 1 is a side elevation. Fig. 2 is a rear view. Fig. 3 is a vertical section on line X X of Fig 2.

In the drawings, 1 1 are the runners, which are made of large and heavy plank, well strapped, and connected together by the beam 1' in the front part and the rod 4 in the rear. The thills or attachment for drawing the scraper is secured to the beam 1'. Across the rear of the bob thus formed and between the runners is pivoted on the rod 4 the scraper 2, which consists of a large flat piece of material having an iron shoe 13 and eyelets 4', through which the rod 4 passes, this rod 4 being near the top of the runners. The scraper 2 extends upward beyond the runners and has secured thereto the handles 3 3.

Pivoted on the center line and on the lower half of the scraper is the lever 7, one end of the lever extending upward to the top of the scraper. Each end of the lever has loosely secured thereto at 9 and 10, equidistant from the pivot 8, the rods 6 and 6', extending from the lever to and beyond the ends of the scraper through eyelets 11 and into engagement, when the lever is in proper position and the scraper is down, with the runners 1 1 at 12. This holds the scraper rigid between the runners.

To dump the scraper, the lever 7 is moved,

drawing the rods 6 and 6' out of engagement with the runners, when it will be turned on its pivot 4 backward and allow its load to pass under it.

16 is a catch for engaging and holding the scraper when turned up, as shown in Fig. 1, and consists of an ordinary spring-catch secured to one of the runners, so as to be engaged by the scraper when turned up.

14 is a flat piece of board or other material secured by the pivot 15 to the rear and lower middle of the scraper, upon which the driver may stand and ride and by his weight hold the scraper to the surface being scraped. By this arrangement I am enabled to secure a simple, cheap, durable, and effective ice-scraper. Many of the elements herein are common, but they have not been placed heretofore in the same arrangement and construction. Therefore,

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

In an ice-scraper, the combination with two runners made heavy and high and secured together by a cross-beam in front on the top thereof, and a rod in the rear near the top thereof, and the rod, of a scraper pivoted on the rod and between the runners, and when in working position its shoe extending forward beyond the vertical plane of its pivot, handles on the scraper, a locking-lever carrying two bolts each adapted to engage a runner and lock the scraper when down, means for locking the scraper when turned up, and means for holding the scraper to the surface being scraped comprising a device pivoted to the lower rear edge of the scraper upon which the driver may stand, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN F. LUCAS.

Witnesses:

A. H. SWARTHOUT,  
MAGGIE BERRY.