

A. DUNBAR.
SNOW PLOW.

No. 108,338.

Patented Oct. 18, 1870.

Fig. 1.

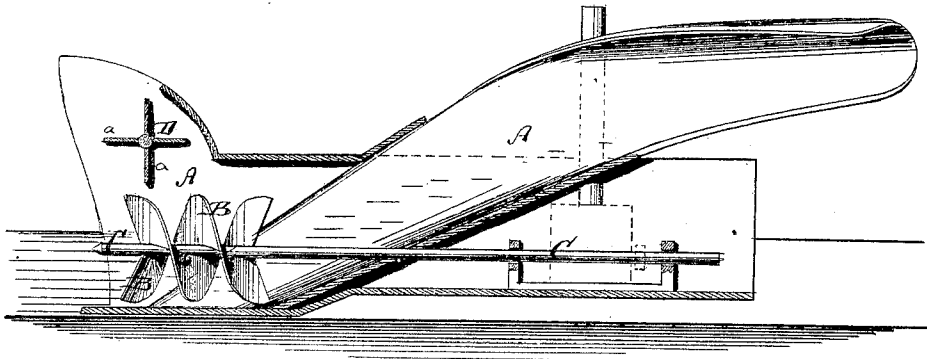
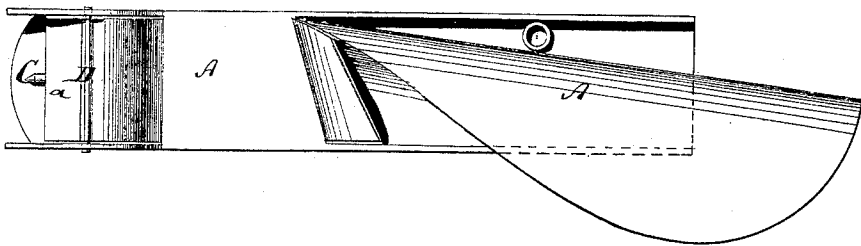


Fig. 2.



Witnesses:

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ALEXANDER DUNBAR, OF NEW YORK, N. Y.

Letters Patent No. 108,338, dated October 18, 1870.

IMPROVEMENT IN SNOW-PLOWS.

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, ALEXANDER DUNBAR, of the city, county, and State of New York, have invented a new and improved Snow-Plow; 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 drawing forming part of this specification, in which—

Figure 1 represents a vertical longitudinal section of my improved snow-plow.

Figure 2 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new snow-plow which will not be forced into the snow like a wedge to throw it aside, but will surround and gradually elevate and throw aside the column of snow to be displaced.

The objection against the ordinary snow-plows now in use is that, besides bearing the entire weight and friction of the column to be displaced, they have also to press against and, to a great degree, overcome the pressure of the snow which remains undisturbed.

By cutting into and surrounding the snow which is to be thrown aside the unnecessary friction is avoided, and more reliable action secured.

A, in the drawing, represents the body of my improved snow-plow. It is made in form of a box, supported in a horizontal position by wheels or runners. Its width is corresponding to the width of road to be opened, its height equal or exceeding the depth of snow, and its length suitable.

The front end of the box is open, and the front edges are sharp, to readily cut into the snow.

Toward the rear the box is gradually elevated and bent to one side. As it is moved forward against the snow it will surround the desired width of snow, and gradually elevate the same into the rear portion, until finally the snow is discharged through an opening in the side near the rear end of the box.

In case the snow should be so firm as to be displaced with great difficulty, a screw, B, mounted upon a shaft, F, may be employed in the box, as shown, the shaft being revolved by suitable machinery in rear of the apparatus.

A transverse shaft, D, having four, more or less, projecting blades, *a a*, may be hung in front of the box, in case the front end of the same is enlarged, as shown.

The object of this shaft would be to feed the upper layer of snow downward, to prevent its passing over the plow to the back of the machine.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The combination, with the box A, constructed as above specified, of the screw B C, and the winged beater D *a*, constructed and arranged as set forth.

The above specification of my invention signed by me this 11th day of January, 1870.

ALEXR. DUNBAR.

Witnesses:

GEO. W. MABEE,
ALEX. F. ROBERTS.