

H. TWITCHELL & G. E. PARSONS.

SNOW-FLOW.

No. 172,799.

Patented Jan. 25, 1876.

Fig.1.

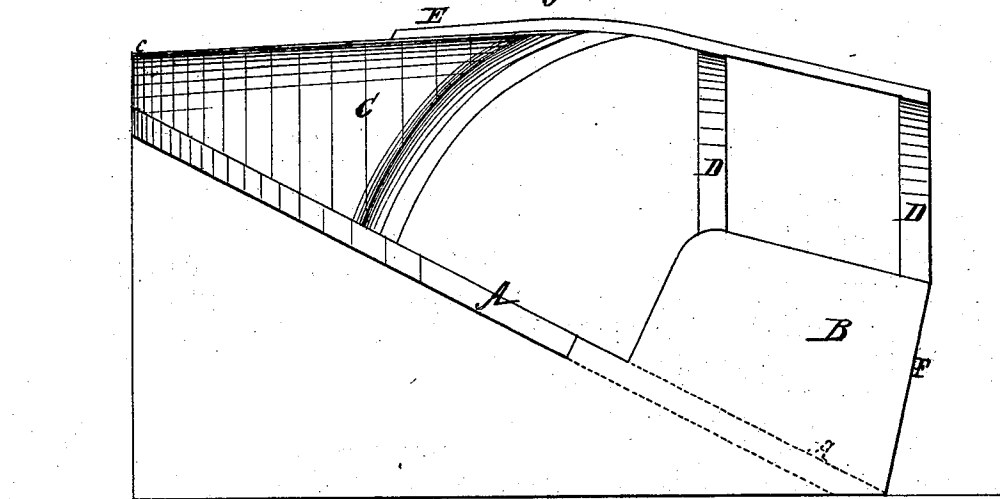
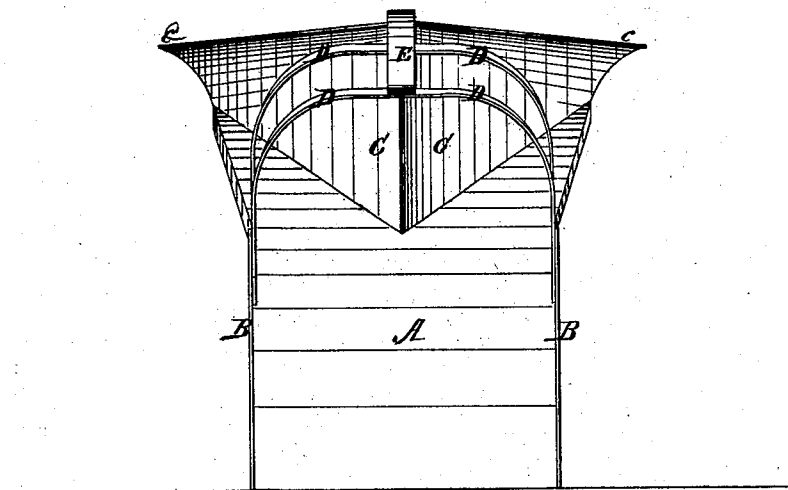


Fig.2.



Witnesses:
G. Matthews.
John A. Kemmer.

Inventor:
Henry Twitchell
George E. Parsons
Per *Wm. B. Parsons*
Attorneys.

UNITED STATES PATENT OFFICE.

HENRY TWITCHELL AND GEORGE E. PARSONS, OF PULASKI, NEW YORK.

IMPROVEMENT IN SNOW-PLOWS.

Specification forming part of Letters Patent No. 172,799, dated January 25, 1876; application filed October 6, 1873.

To all whom it may concern:

Be it known that we, HENRY TWITCHELL and GEORGE E. PARSONS, of Pulaski, in the county of Oswego and State of New York, have invented a new and Improved Snow-Plow; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is a side elevation. Fig. 2 is a front view.

The invention relates to that well-known class of snow-plows in which an inclined plane is used to raise the snow, side colters to sever it from the mass on each side, and a mold-board or wedge at the head of the inclined plane to divide and force the snow laterally to some distance beyond the track.

The means which we have invented, and which constitute a decided improvement in this special class of snow-plows, will first be fully described, and then clearly pointed out in the claim.

A is the inclined plane; B B, the side colters, and C the snow-ejector.

We find that where the snow on the track is cut thoroughly from the mass on each side the ultimate work is much better done than under ordinary circumstances.

For this purpose we use bow-plates or top cutters D D, which also serve to form supporting-arches to the colter side plates, preventing them from being bent outwardly, and retaining them always in their proper relative position. These are all strengthened and reinforced by a projecting brace, E, attached at one end to the mold-board or ejector C and to the bow-plates D.

The front edges F of the side colters B are inclined in a forward direction in respect to

the base of the inclined apron A, so as to cause the colters to enter the snow, for dividing the same preparatory to being elevated up the inclined plane by the forward movement of the plow.

It will thus be apparent that less resistance is offered to the progress of the plow by cutting the snow, ready to be elevated, before the lower end of the inclined elevator-apron reaches the separated mass of snow.

The side colters B are also made to extend backward to a sufficient extent for forming guard plates or walls, which will prevent the snow from being thrown off laterally until it reaches the double mold-board or divider C.

The divider and snow-ejector C has a projecting flange, c, which prevents the action of the force (tending to throw the snow) from being exerted in an upward direction, and compels the mass of snow to shoot out in a horizontal direction.

In practice, with this improvement a snow-plow is found to eject the snow over and beyond the adjacent track.

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

The snow-plow having the inclined shovel-floor A, widened under the side guides, the forwardly and laterally curved overhanging side guides c, meeting each other at a sharp angle centrally, and extending laterally beyond said floor, the center cutter, side cutters B, bows D, and center brace E, constructed and arranged as shown and described.

HENRY TWITCHELL.
GEORGE E. PARSONS.

Witnesses:

J. H. CLARK,
J. W. SHUE.