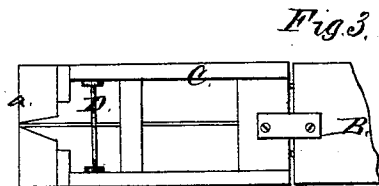
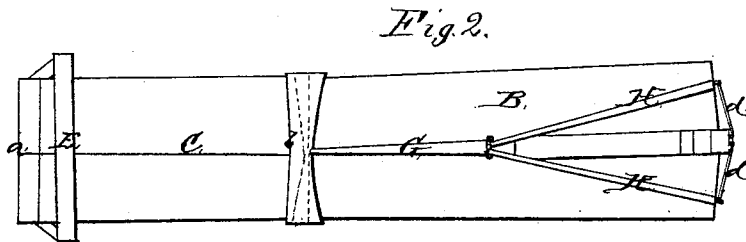
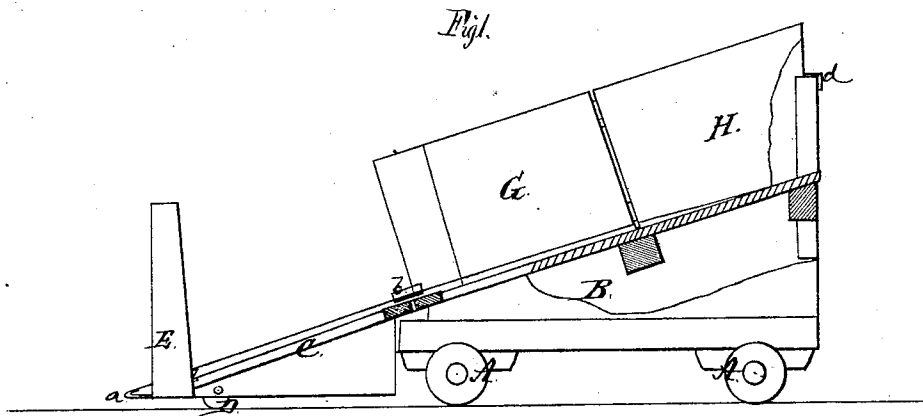


R. WILSON.
Snow Plow.

No. 101,693.

Patented April 5, 1870.



Witnesses.
Edw. M. Cropley
C. L. Curtis

Inventor.
Robert Wilson
per
Alexander Thason
Atty.

United States Patent Office.

ROBERT WILSON, OF DES MOINES, IOWA.

Letters Patent No. 101,693, dated April 5, 1870.

IMPROVEMENT IN SNOW-PLOWS FOR RAILWAYS.

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, ROBERT WILSON, of Des Moines, in the county of Polk and in the State of Iowa, have invented certain new and useful Improvements in Snow-Plows for Railroad-Cars; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "snow-plow for railroad cars," as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation, and

Figure 2, a plan view of my machine.

Figure 3 is a bottom view of the front end of the same.

A A represent two of the usual railroad trucks, upon which is placed a car, B, having its upper side inclined upward from front to rear, and also slightly downward from the center toward each side.

To the front end of the car B is pivoted or coupled another car, C, resting upon a smaller truck, D, and so constructed that its upper surface will continue the inclination of the car B, both sideways and also toward the front, the front edge being steel shod, and placed at such a height as to be immediately above the upper surface of the rails.

The steel edge *a*, at the front end of the car C, acts as a cutter or scraper to loosen the snow from the rails.

At each side of the car C, near the front end, is a cutter, E, which incline outward and toward the rear, and are connected at their upper ends, as shown in fig. 2.

The joint between the cars B and C is covered by a metal plate, *b*, as seen in the drawing, to prevent the snow from collecting in the same. This joint is

further inclined, as represented by dotted lines in ng. 2, so as to allow the snow-plow to follow the curves of the track.

Along the center of the car B rises a wedge-shaped sword, G, the front edge of which is steel shod, and at the rear edge are hinged two wings or mold-boards H H, held a suitable distance apart at their rear ends by means of the hooks *d d*, so as to conduct the snow off on the sides of the track.

It will be seen that the cutter *a*, with the cutters or swords E, clear a space sufficient above and on the sides of the track to allow the train to pass. The snow thus cut passes up the incline C, when the sword G divides it, and half is carried on each side thereof; until the wings H H throw it off on the outside of the track.

The wings H H, if too high to pass under bridges, can be swung around and lowered, so as to come along the sides of the sword G.

The wedge or sword G may extend down a suitable distance along the center of the car C, in which case it should be made in two pieces, hinged together at the joint between the two cars B and C.

Having thus fully described my invention,

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

1. The arrangement upon the incline C of the central wedge-shaped sword G, with the two wings H H hinged to its rear, and connected by the rods and hooks *d d*, all substantially as set forth.

2. The combination of the trucks A D, car B, incline C, with cutter *a*, angular cutter E, sword G, and wings H H, all substantially as and for the purposes set forth.

In testimony that I claim the foregoing, I have hereunto set my hand and seal this 19th day of January, 1870.

ROBERT WILSON. [L. S.]

Witnesses:

CHARLES NICHOLAS,
MOSES M. WHITE.