A. J. SMITH.

Snow-Plow.

No. 166,649. Patented Aug. 10, 1875.

Fig. 1.

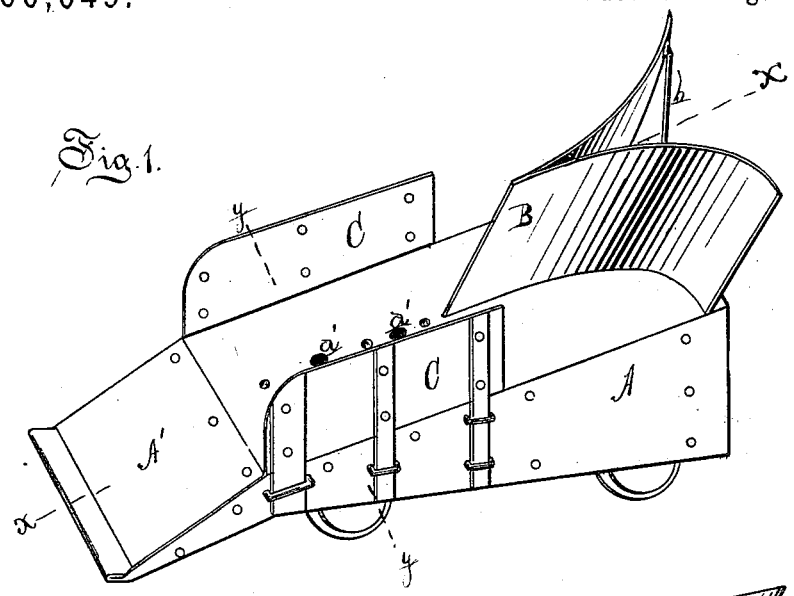


Fig. 2.

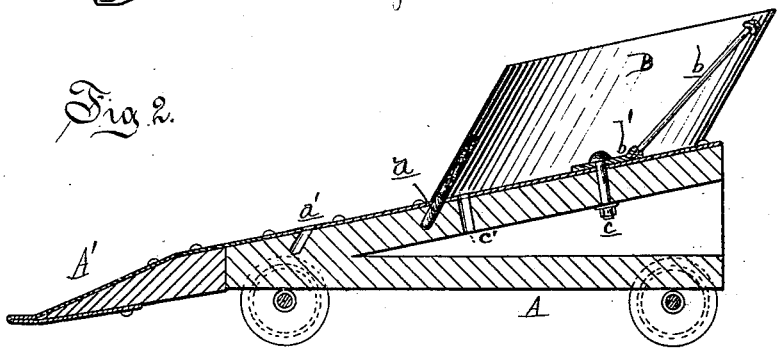
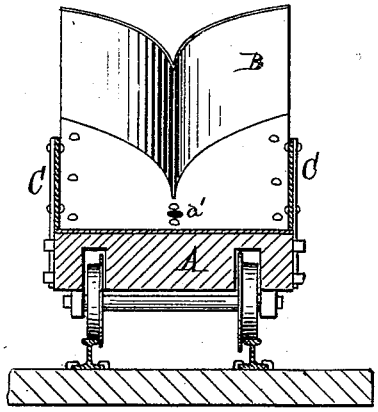


Fig. 3



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UNITED STATES PATENT OFFICE.

ALMON J. SMITH, OF ORTONVILLE, MICHIGAN, ASSIGNOR TO OLIVER D. DRAPER AND THOMAS TUCKER, OF SAME PLACE.

IMPROVEMENT IN SNOW-PLOWS.

Specification forming part of Letters Patent No. **166,649**, dated August 10, 1875; application filed April 27, 1875.

To all whom it may concern:

Be it known that I, ALMON J. SMITH, of Ortonville, in the county of Oakland and State of Michigan, have invented an Improvement in Railway Snow-Plows, of which the following is a specification:

My invention relates to an improvement in snow-plows of that class wherein the snow is lifted on an apron or incline plane mounted on wheels running on the track, and propelled by one or more locomotives, before it is laterally discharged by a mold-board on the apron.

The invention consists in making the double mold-board adjustable as to position on the apron for light or deep snow, and in the combination therewith of detachable side boards, as and for the purpose more fully hereinafter set forth.

Figure 1 is a perspective view. Fig. 2 is a longitudinal vertical section at *x x*. Fig. 3 is a cross-section at *y y*.

In the drawing, A represents a truck mounted on wheels, and whose top is an incline plane, terminating in a shovel, A′, but slightly elevated above the plane of the rails. The top and sides are covered with iron or steel plate, securely fastened to the wood-work, which is necessarily of a most substantial character. B is a double mold-board, having an inclined lug, *a*, bolted in the bifurcation at the point, which lug is inserted in one of the diagonal sockets *a′* in the top of the apron. *b b* are braces, extending diagonally from the upper rear corners of the mold-board to the center of a metal girt, *b′*, across the lower edges of the mold-boards, which girt is secured to the apron by a bolt, *c*, passing through one of the holes *c′*. C C are side plates, removably attached to the sides of the fore part of the plow, and are only to be used when clearing the road of deep or drifted snows, in which case the mold-board is placed on the rear or higher part of the plane, as shown, to guide or direct the snow taken up by the apron up to the plow or mold-board, which throws it off laterally over the snow lying at the side of the track.

In ordinary or light snows the side plates are detached, and the mold-board is shifted forward, so as to discharge the snow at once.

I am aware that a snow-plow has been before made consisting of a truck mounted on wheels carrying an inclined apron, upon which the snow is lifted, and that such apron had side boards stationarily secured upon its sides near the lower ends of such sides, and was also provided with an adjustable wedge-piece, serving as a mold-board; and I disclaim, broadly, the invention of the same; but

What I claim as my invention is—

The combination of the longitudinally-adjustable mold-board B B and the detachable side plates C C with the inclined apron A A′, mounted on wheels, the several parts being constructed and arranged substantially as and for the purpose set forth.

ALMON J. SMITH.

Witnesses:

TLLEE P. SMITH,

LEWIS L. SMITH.