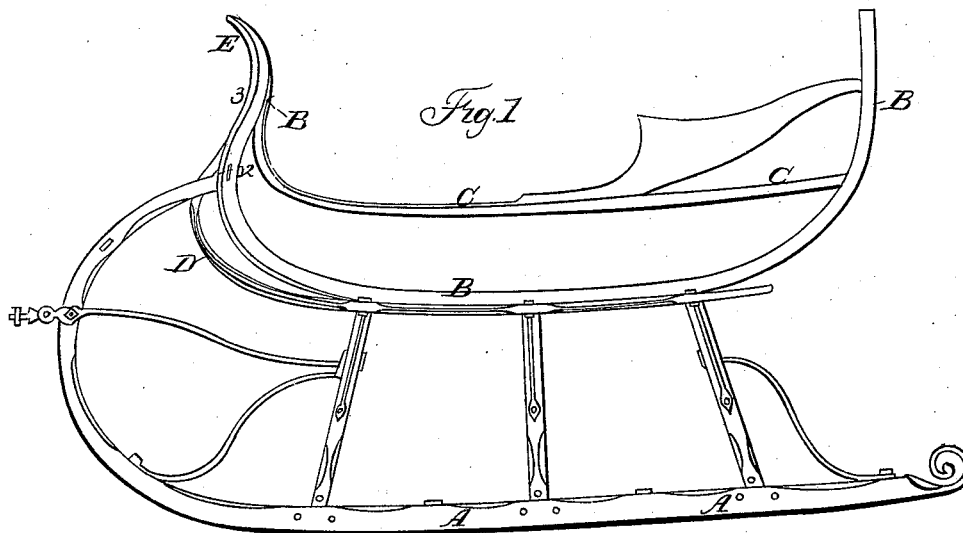
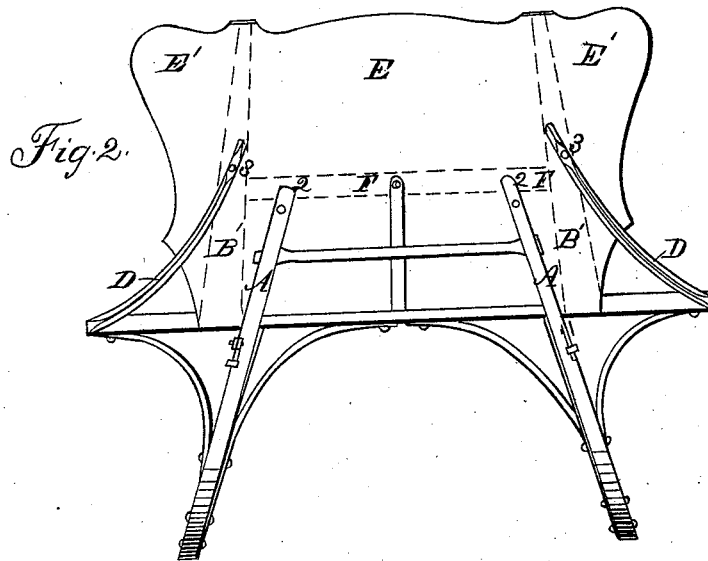


M. MILLER.

Sleigh.

Patented July 23, 1846.

No. 4,667.



# UNITED STATES PATENT OFFICE.

MOSES MILLER, OF FORT ANN, NEW YORK.

## SLEIGH.

Specification of Letters Patent No. 4,667, dated July 28, 1846.

*To all whom it may concern:*

Be it known that I, MOSES MILLER, of Fort Ann, in the county of Washington and State of New York, have invented an Improvement in the Manner of Constructing Sleighs, by means of which improvement the dash-board may be made of any desired width, so as to form wings on each side thereof out of the same piece which constitutes the dash-board itself, thereby affording more effectual protection from annoyance by the throwing up of snow, while also the structure of the fore part of the vehicle is rendered more permanent than heretofore and will more readily admit of repair; and I do hereby declare that the following is a full and exact description thereof.

In the accompanying drawing Figure 1 is a side elevation, and Fig. 2, a view of the fore end of the sleigh.

A, A, are the runners; B, B, and C, C, the timbers that are called the raves; B, B, being the lower, and C, C, the upper raves, which, with the necessary cross pieces, constitute the main frame of the sleigh-body.

D, D, are the fenders, which are curved round so as to bring their outer ends opposite to the main raves, B, B, as shown at 3, in Fig. 2, to which raves they are fastened by a screw bolt, or some analogous means. The main raves, B, B, I turn up, in the form seen in the front at B', Fig. 2, but this curve may, of course, be varied at pleasure. The fore part of the raves I connect firmly together by means of a cross piece, the place of which is shown by the dotted lines at F, F, Fig. 1.

In the constructing of sleighs as heretofore made, the dash-board, constituting the fore part of the body of the vehicle, has been placed on the inside of the raves, and it has therefore, been limited in its width to that of the frame-work of the sleigh, which width is designated by the dotted lines, B, B, Fig.

1, this being the place of the raves. Under my arrangement, the dash-board is planted on the raves at their outer sides, and it may, therefore, be extended out in width so as to form wings, in one solid piece with the said board. The board so attached is shown at E, E, Fig. 1, where the part E', E', constitutes wings, which may be extended out to any desired width without any additional cost, and in a manner much more permanent and convenient than such parts could be made if added to sleighs on the old plan.

The runners, A, A, are curved upward and backward, so as to bring their fore ends in contact with the dash-board at a point immediately opposite to the cross piece F, to which they are confined by the use of suitable screw bolts. The dash-board I affix to the raves by means of wood screws, and the whole arrangement of the front, therefore, is such that the runners, fenders and dash-board may readily be removed for the purpose of repair.

Having thus fully described the manner in which I arrange and combine those parts of my sleigh in which my improvements are found, what I claim therein as new, and desire to secure by Letters Patent, is—

The within described manner of combining the dash-board with the raves, or frame-work, of the sleigh; the dash board being affixed on the outside of the raves, whereby admitting of its being widened out so as to constitute wings; while under the peculiar arrangement set forth it may be disconnected for the purpose of repair, and replaced at pleasure. To this manner of combining the dash board with the raves I limit my claim.

MOSES MILLER.

Witnesses:

JOHN HILLEBUT,  
ALLEN CORKINS,  
HENRY MORN.