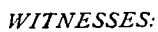


1,066,173.

Patented July 1, 1913.



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1,066,173.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, SAMUEL L. ALLEN, a citizen of the United States, residing at Moorestown, in the county of Burlington and State of New Jersey, have invented certain new and useful Improvements in Sleds, of which the following is a specification.

My invention relates to sleds, and it has particular relation to the means for supporting the deck of the sled upon the runners thereof.

My invention contemplates a unitary supporting standard which may be inexpensively formed from sheet metal, and which will be light yet strong and rigid and will resist the varied stresses to which structures of this character are subjected when in use.

The nature and characteristic features of my invention will be more readily understood from the following description taken in connection with the accompanying drawings forming part hereof, in which—

Figure 1 is an interior side elevation of the supporting standard, enlarged, said standard constituting the principal novel element of my present invention; Fig. 2 is a front elevation of the supporting standard shown in Fig. 1; Figs. 3, 4, 5, and 6 are sections respectively taken on the line 6—6, 7—7, 8—8, and 9—9 of Fig. 1; and Fig. 7 is a similar section taken on the line 10—10 of Fig. 2. Fig. 8 is a transverse section of the sled showing the standard as attached to the body and runners of the sled.

Referring to the drawings, in the particular embodiment of my invention therein shown, 11 is the deck of the sled which is mounted on the transverse supporting bars 12 which are in turn supported by the standards 13 upon the runners 14. The supporting standards 13 are the members which constitute the principal novel element of my present invention, and consist of sheet metal devices each comprising a flat top portion 15 adapted to be secured to the transverse bars 12 upon which the deck 11 is supported, and having two diverging leg portions 16 extending from the outer part of said flat portion 15, which leg portions 16 are substantially V shaped in cross section throughout their length. The leg portions 16 have bifurcated portions 17 at their lowermost extremities which are apertured as at 18 to provide means for riveting or otherwise securing the said extremities of the leg portions 16 to the runners 14. As

before stated the leg portions 16 are V shaped in cross-section having as shown in Figs. 6, 7 and 8 an upper narrow web 19 from which extend respectively the outer-side wing 20 and the inner-side wing 21. The under open or channeled side of the diverging wings 20 and 21 increases in width from the bottom of the leg upward and the outer wing 20 merges into a small lip 22 at the outer edge of the flat top portion 15, while the inner wing 21 merges into a depending wall 23 extending downwardly from the inner part of the side margins of the flat top portion 15. These walls 23 also merge into a lip 24 at the inner extremity of said flat top portion 15. The margins of the inside wall 21 of each leg portion 16 and the downwardly extending wall 23 are provided with a continuously extending outwardly turned lip or flange 25. The flange 25 following the contour of the margin of said wing 21, the margin of wing 23 in a continuous unitary form serve to render the entire standard 16 extremely rigid and stiff, enabling it to resist the torsional and other stresses which occur in various directions during the use of coasting sleds of the character for which this device is primarily designed, thereby enabling the standard to be made lighter and dispensing with additional braces which would constitute an obstruction against the free passage of the sled through soft snow or the like.

Having thus described the nature and characteristic features of my invention what I claim as new and desire to secure by Letters Patent is:—

1. In a sled, the means for supporting the deck upon the runners comprising standards formed from sheet metal and each having a flat top portion, and two diverging leg portions extending therefrom, said leg portions being V shaped in cross-section and having an outwardly turned lip or flange on one of the wings of the section.

2. In a sled, the means for supporting the deck upon the runners comprising standards formed from sheet metal and each having a flat top portion, two diverging leg portions extending from the outer part of said top portion, walls extending downwardly from the inner part of said top portion, the leg portions being V shaped in cross-section and each having one of the wings of the section merging into one of said downwardly extending walls, and an outwardly turned lip

or flange extending from the margins of said wing and wall.

3. In a sled, the means for supporting the deck upon the runners comprising standards
5 formed from sheet metal and each having a flat top portion, two diverging leg portions extending from the outer part of said top portion, walls extending downwardly from the inner part of said top portion, the log
10 portions being V shaped in cross-section and each having one of the wings of the section merging into one of said downwardly ex-

tending walls, and a continuous outwardly turned lip or flange extending from and following the contour of the margins of said wing and wall. 15

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

SAMUEL L. ALLEN.

Witnesses:

EDWARD W. BURT,
A. L. JACOBY.