No. 806,074. PATENTED NOV. 28, 1905.

O. A. ESSIG.

SLED.

APPLICATION FILED NOV. 10, 1904.

Fig. 1.

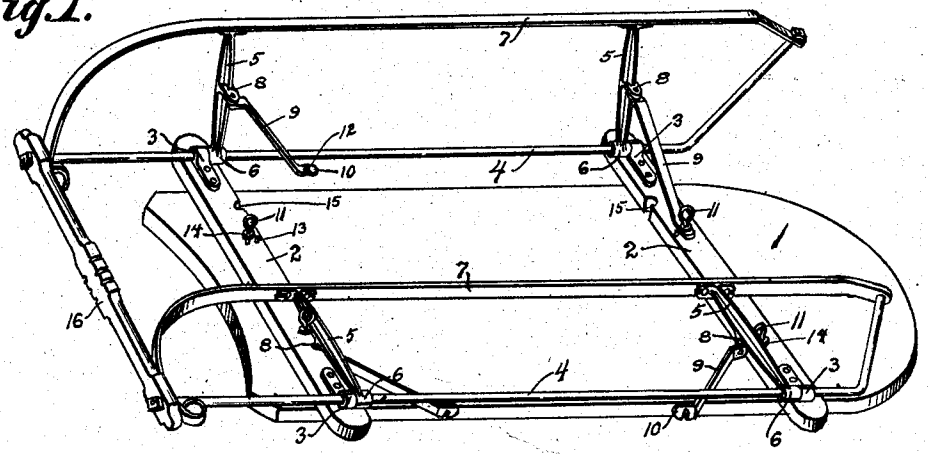


Fig. 2.

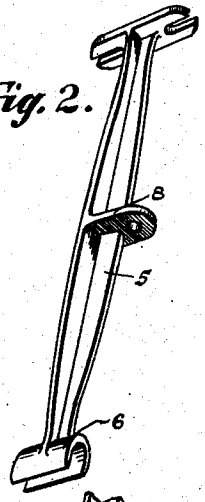


Fig. 3.

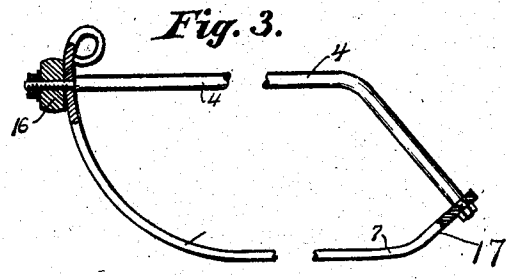


Fig. 4.

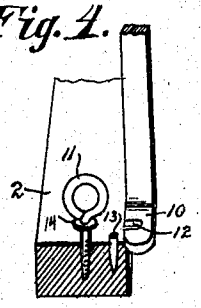


Fig. 5.

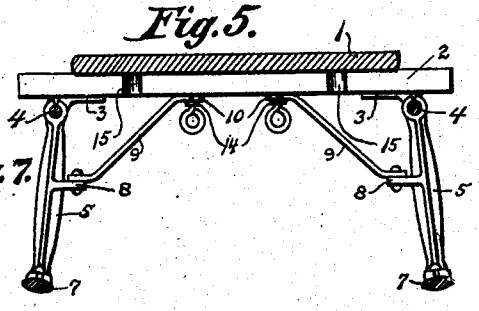


Fig. 7.

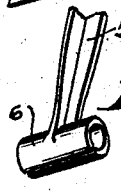
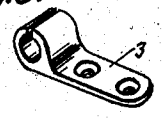


Fig. 6.



WITNESSES

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SLED.

No. 806,074. Specification of Letters Patent. Patented Nov. 28, 1905.

Application filed November 10, 1904. Serial No. 232,199.

To all whom it may concern:

Be it known that I, OZIA A. ESSIG, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Sleds; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the numerals of reference marked thereon, in which—

Figure 1 is a bottom or under side view showing one of the runner members folded. Fig. 2 is a detached view of one of the standards. Fig. 3 is a detached view of one of the runners, showing the cross-bar in cross-section. Fig. 4 is a view showing a portion of one of the cross-bars or members and the free end of one of the runner-braces and its retaining eye-bolt. Fig. 5 is a transverse section of the sled proper, showing the runners extended and properly braced. Fig. 6 is a detached view of one of the runner-member clips. Fig. 7 is a view showing a portion of one of the standards and illustrating the clip end closed.

The present invention has relation to improvements in sleds; and it consists in the novel construction and arrangement hereinafter described, and particularly pointed out in the claims.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, 1 represents the sled-top, which is formed of a size to correspond with the size of the sled designed to be constructed, to the bottom or under side of which top are attached the cross-bars 2, which cross-bars are for the purpose of giving strength to the top 1 and at the same time providing means for attaching and holding in proper position the clips 3, which clips receive the top rods 4 of the runner members proper. To the rods 4 are attached the standards 5 by means of their clip ends 6, which clip ends are originally formed, substantially as shown in Fig. 2, and are so formed for the purpose of properly connecting the standards to the rods 4, after which the clip ends are closed, as illustrated in Figs. 1 and 7, by which arrangement the standards are securely connected to the rods 4. The runners 7 are connected, by means of rivets or their equivalents, to the standards 5 and the rods 4 bent and connected to the rear ends of the runners 7, substantially as shown in the drawings. By this construction the standards, runners, and top bars constitute a structure adapted to support the sled when the same are extended, as illustrated in Fig. 5.

The standards are provided with the flanges 8, located about midway between the ends, and are for the purpose of providing means for pivotally attaching the braces 9, which braces are of such a shape and size that they will extend from the flanges 8 to the bottom or under side of the cross-bars 2, said braces being provided with the notched angled ends 10, which notched angled ends are so located that their upper faces will come in contact with the bottom or under side of the bars 2. The bars 2 are each provided with the eye or lug bolts 11, which eye or lug bolts are for the purpose of receiving the notches 12, formed in the angled portions 10 of the braces 9. The cross-bars 2 are provided with the pins 13, which pins are spaced a short distance from the eye or lug bolts 11, as illustrated in the drawings, and when properly located extend only a short distance below the bottom of the bars 2 and are for the purpose of preventing any accidental displacement of the braces 9. The angled portions of the braces 9 are brought under the flanges 14 of the eye or lug bolts 11, and when so brought under the pins 13 will engage the non-recessed sides of the angled portions 10. It will be understood that the eyebolts must be turned so as to bring the flanges 14 far enough away from the under faces of the cross-bars 2 to allow the angled portions 10 to pass over the short pins 13, after which the eye or lug bolts are turned so as to clamp the flanges 10 between the under faces of the cross-bar 2 and the flanges 14, and thereby hold the runner members in the position illustrated in Fig. 5.

It will be understood that when the braces 9 are released they are free to be turned upon their pivotal points, as illustrated in Fig. 1 at the lower right-hand end of said figure, by which arrangement the runner members can be folded upon the bottom or under side of the cross-bars 2 and in close relationship with the bottom or under side of the top 1.

For the purpose of allowing the standards 5 to fold without any interference with the brace-connecting flanges 8 notches 15 are provided, which notches are formed in the cross-bars 2.

To the front or forward ends of the bars 4 is attached the cross-bar 16, and for the purpose of allowing the side members proper of

the sled to fold the rods 4 should be journaled in the cross-bar 16.

For the purpose of strengthening the side members and also provide for connecting the rear ends of the runners in a rigid manner the top rods 4 are bent and their ends connected to the angled portions 17 of the runners 7.

By hinging the side members of the sled said members can be folded in close relationship with the top of the sled, thereby reducing the bulk of the sled for storage purposes or for any other purpose, such as shipping in reduced bulk.

I do not desire to be confined to the exact and precise arrangement of connecting the various parts of the runner members together nor to the exact manner of hinging said runner members, as the object designed to be accomplished is to provide a sled having running members adapted to be brought into position to support the sled in the usual manner and to be folded so as to reduce the bulk of the sled.

The eye or lug bolts should be so formed that when the runner members are folded the heads or eye ends will engage the standards 5, thereby holding the members in a folded position.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a sled, the combination of a sled-body, cross-bars secured to said body, and provided with clips, said clips adapted to receive and hold the top rods of the runners, and the top rods extended rearward, and their rear ends curved or bent downward, runners secured to the rear lower ends of the downward curved portions of the rods, said runners extended forward and upward at their forward ends and secured to the forward ends of the rods, said rods constituting the journals for the standards, braces pivoted to the standards and adapted to be secured to the cross-bars, and a front cross-bar carried by the top rods, substantially as and for the purpose specified.

2. In a sled of the class described, a sled-body provided with hinged runner members, said runner members constituting rods, standards secured to the rods, and the runners secured to the rods at their upper forward ends and the rods provided with rear downward extended portions and the runners secured to the lower ends thereof, and braces carried by the standards of the runner members and their free ends adapted to be secured in fixed relation with reference to the sled-body, substantially as and for the purpose specified.

3. In a sled of the class described, hinged runner members, braces pivotally attached to the runner members, eye or lug bolts located in the sled-body, the braces provided with notched ends, and pins secured to the sled-body and adapted to engage the non-recessed edges of the notched ends of the braces, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

OZIA A. ESSIG.

Witnesses:
J. A. JEFFERS,
F. W. BOND.