

(No Model.)

N. B. PETERSON.

SLED.

No. 310,078.

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Fig. 1.

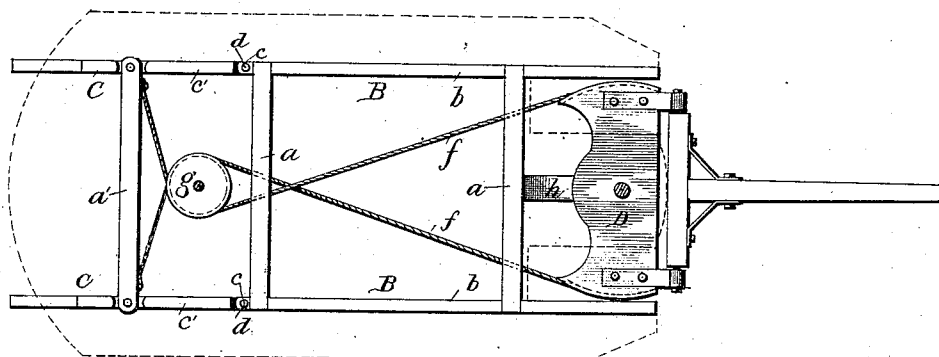


Fig. 2.

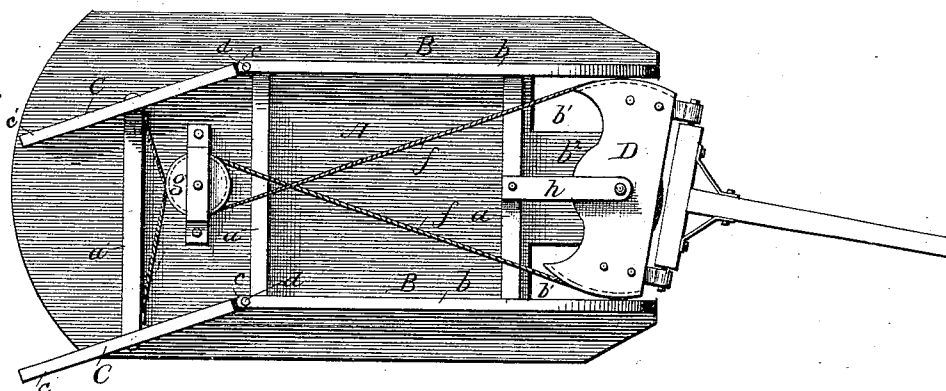


Fig. 3.

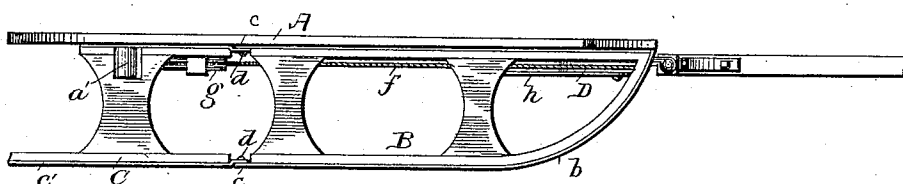


Fig. 4.



WITNESSES

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SLED.

SPECIFICATION forming part of Letters Patent No. 310,078, dated December 30, 1884.

Application filed July 3, 1884. (No model.)

To all whom it may concern:

Be it known that I, NILS B. PETERSON, a citizen of the United States of America, residing at Seattle, in the county of King and Territory of Washington, have invented certain new and useful Improvements in Sleds; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to sleds; and it consists in the improvements hereinafter described, whereby the runners are so arranged as to be under the complete control of the operator, who can thereby readily and effectively guide the sled.

In the accompanying drawings, forming part of this specification, Figure 1 is a plan view of my improved sled, the platform of which is shown in dotted lines. Fig. 2 is an inverted plan view of the improved sled, representing the position of the runners when turning in one direction; and Fig. 3 is a side view of said improved sled; and Fig. 4 is a transverse sectional view through the metallic runner or shoe.

A represents the platform of the sled, having the cross-bars secured on the under side of the same, and bracing the runner-sections B, which extend from the front of the platform to a point a short distance from the rear end of the same. The upper and lower edges of the runner-sections are clasped by metallic bands *b*, which terminate at their rear in tongues *c*. Supplemental runner-sections C are arranged at each side of the platform A, beneath the same, to form continuations of the main runner-sections B. The said sections C are also bound and provided with tongues *c'*, which are pivotally attached to the tongues *c* by vertical bolts *d*. A cross-bar, *a'*, rigidly connects the supplemental sections together independent of the platform. The platform A is cut away at its front portion to form at each side a rectangular opening, *b'*, which

form between them a central bearing portion, 50 *b''*. A plate, D, is centrally pivoted on the under side of said bearing portion *b''*, and has its grooved ends curved, as indicated in Figs. 1 and 2, the said curved ends registering with the opening *b'* in the platform. A cord or 55 cable, *f*, is attached to the curved ends of the plate D, and the said cords *f* cross each other adjacent to the rear bar, *a*, after which they pass around a roller, *g*, centrally journaled on the under side of the platform A between the 60 rear bar *a* and bar *a'*, and finally cross each other, to be secured at their ends to each side of the bar *a'*.

To provide for the proper pivotal support of the plate D, a hanger, *h*, is secured at its 65 rear end to the center of the front bar *a*, and embraces at its front end the plate D.

As illustrated in Fig. 4, I prefer to make the runners or shoes with two under sides, which converge to a central rib, as clearly seen 70 in said figure.

Suitable draft devices are attached to the plate D at either side of its central pivot, and by vibrating the same cause the rear supplemental runners to swing to one side or the 75 other of the platform A, which causes the front portion of the sled to turn to one side or the other, according to the swinging movement of the supplemental sections. By forming the openings *b'* the plate D may be readily 80 operated by the feet of the passenger to guide the sled.

From the foregoing it will be seen that a sled constructed in accordance with my invention will be of not only simple and durable 85 construction, but can be readily operated to control and guide the movements of the same.

I claim—

1. The combination, in a sled, of a platform, main runner-sections secured to the same, supplemental runner-section pivotally attached to said main section, a plate pivoted at or near the front of said platform on the under side of the same, and having grooved curved ends, and cords or cables attached to the front of said 95 curved end for the purpose described, guided rearward, and attached to said supplemental section, substantially as set forth.

2. The combination, in a sled, of a platform having the opening *b'*, main runner-sections secured to said platform, supplemental runner-sections pivotally attached, a plate
5 pivoted at the front of said platform on the under side of the same, and having curved grooved ends registering with said opening *b'*, and cords or cables connecting the forward

part of said curved ends to the supplemental runner-sections, substantially as set forth. 10

In testimony whereof I affix my signature in presence of two witnesses.

NILS B. PETERSON.

Witnesses:

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