

F. DILLON.
BOB-SLED.

No. 171,271.

Patented Dec. 21, 1875.

Fig. 1.

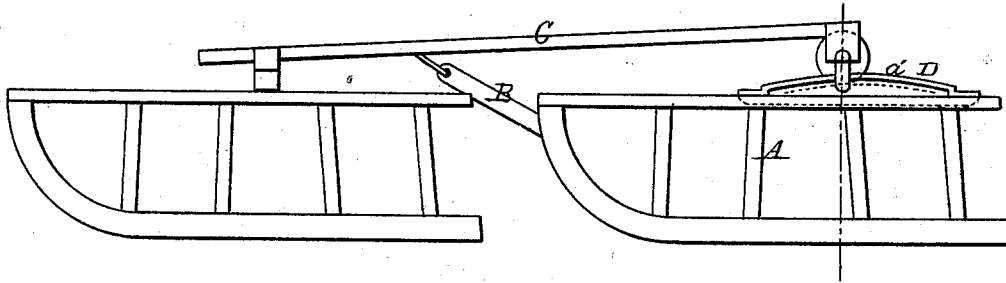


Fig. 2.

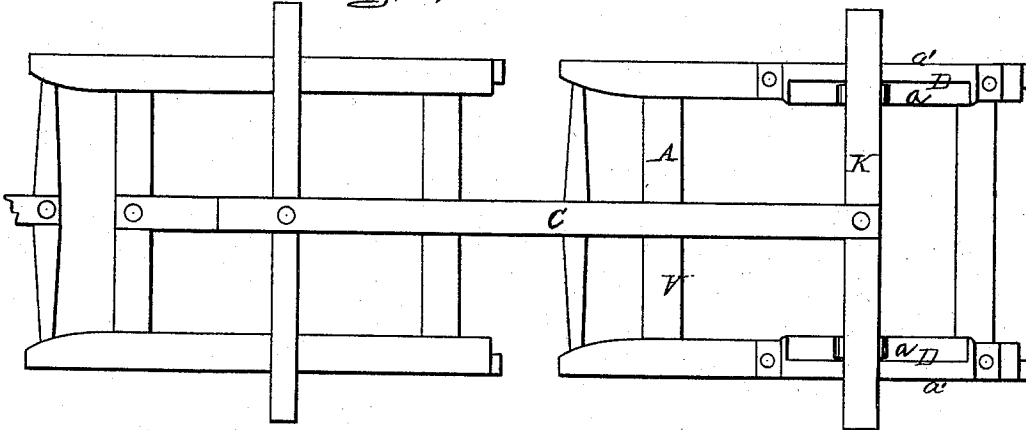


Fig. 3.

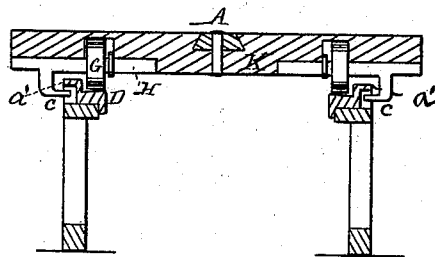
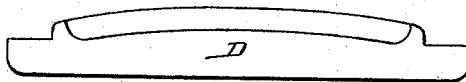


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

FRANCIS DILLON, OF WALCOTT, NEW YORK.

IMPROVEMENT IN BOB-SLEDS.

Specification forming part of Letters Patent No. **171,271**, dated December 21, 1875; application filed May 15, 1875.

To all whom it may concern:

Be it known that I, FRANCIS DILLON, of Walcott, in the county of Wayne and State of New York, have invented a new and valuable Improvement in Bob-Sled Rollers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a side elevation of my device, and Fig. 2 is a plan view of the same. Fig. 3 is a transverse sectional view, and Fig. 4 is a detail view.

My invention relates to bob-sleds; and it consists in novel attachments to the rear sled, as hereinafter described, which are designed to prevent strain or breakage when moving over rough or uneven surfaces.

The letter A of the drawings represents my rear sled, which is, preferably, connected with the front sled by means of the tongue B, attached to the reach C, as shown. D represents an arched and flanged plate, which is secured by bolts or otherwise to the top of each of the sled-runners. This plate may be constructed either of wood or metal, and its office is to serve as a track and guide for the rollers hereinafter mentioned, and the movable bolster to which said rollers are attached. The plate D is constructed with a swelled or circular-shaped track, *a*, for the rollers, as shown on Fig. 4 of the drawings, the respective ends of which are curved upward, as thereon represented. The letter *a'* represents a flange, curved upwardly on the outside of the plate, the line of curvature corresponding with the plane of the track for the rollers above described. H represents an axle, form-

ing a bearing for a roller, and G is one of my rollers connected therewith. This axle is constructed with a rectangular hook, *c*, on its outer end, adapted to clasp the flange *a* loosely, and move back and forth with the roller.

It is obvious that the hook *c* serves as a guide and guard for the roller, and prevents it from running horizontally off its track.

The letter K represents my bolster for the rear sled, to which the axle H and roller G are attached, as shown on Fig. 3. One of these axles and rollers is connected with each end of the bolster, and a flanged and curved plate is attached to each runner of the sled.

I am aware that a sled has heretofore been constructed in which the bolster is connected with the way by means of a rounded bearing fitting into a depression, for the purpose of allowing an oscillating movement of the bob, and employing friction-rollers to obviate the friction in the end movement of the bob, as shown in Letters Patent granted to J. Stevens, dated January 10, 1865, No. 45,874; and I therefore lay no claim to such invention.

What I claim as new, and desire to secure by Letters Patent, is—

In bob-sleds, the plate D, having curved track *a* and flange *a'*, both curved upward correspondingly with the plane of the track, in combination with the axle H, forming a bearing for the roller G, and provided with a rectangular hook, *c*, substantially as and for the purpose set forth.

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

FRANCIS DILLON.

Witnesses:

EBEN W. NEWBERRY,
HIRAM MERKER.