

(No Model.)

W. DU BOIS.
SLEIGH RUNNER.

No. 509,723.

Patented Nov. 28, 1893.

Fig: 1.

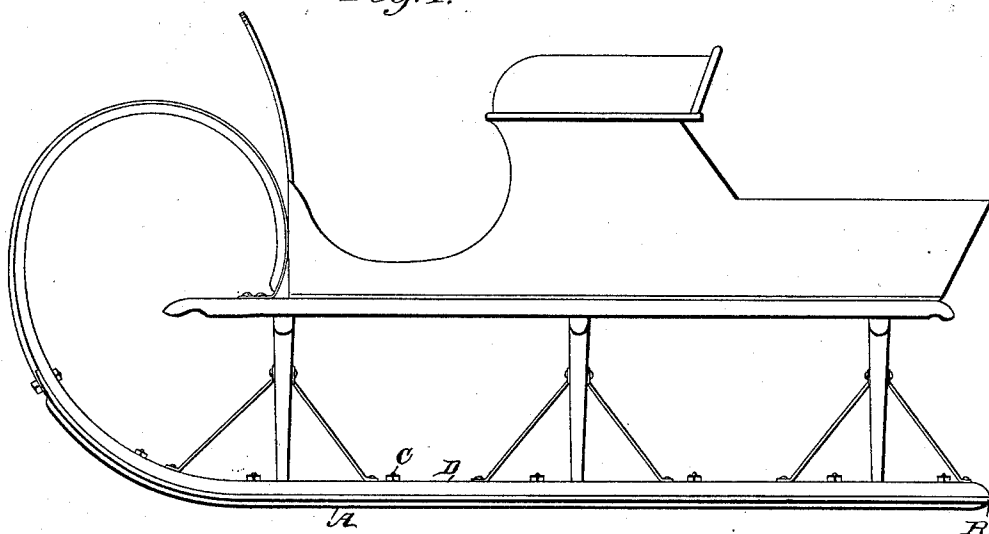


Fig: 2.

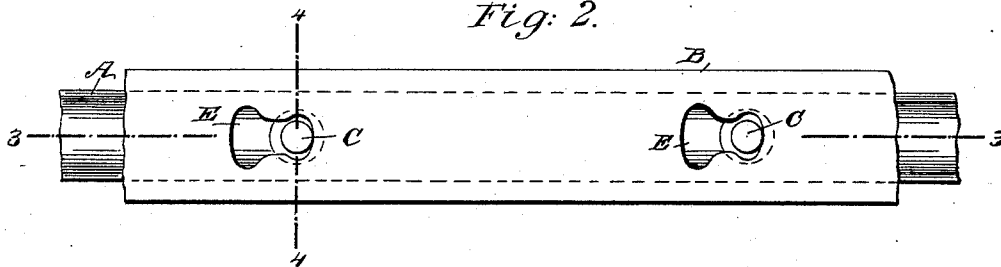


Fig: 3.

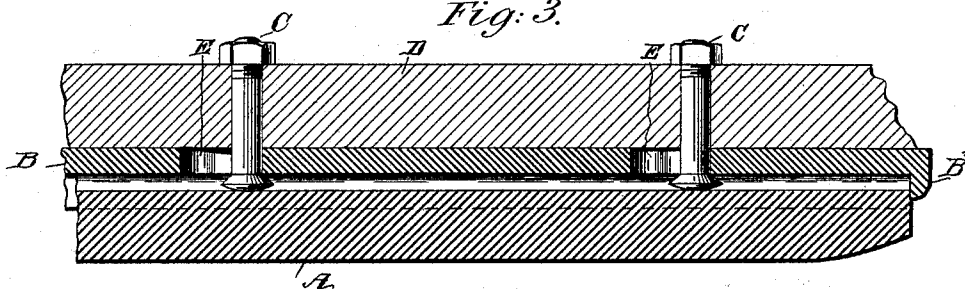
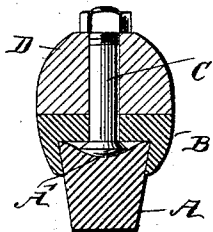


Fig: 4.



WITNESSES:

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WILLIAM DU BOIS, OF STEVENSVILLE, NEW YORK.

SLEIGH-RUNNER.

SPECIFICATION forming part of Letters Patent No. 509,723, dated November 28, 1893.

Application filed April 7, 1893. Serial No. 469,383. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM DU BOIS, of Stevensville, in the county of Sullivan and State of New York, have invented a new and Improved Sleigh-Runner, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved sleigh runner which is simple and durable in construction, and arranged to greatly strengthen the same, and to lessen the draft when the sleigh is passing over frozen or bare ground, or crossing railroad tracks, &c.

The invention consists of a runner made in two parts, of which one forms a shoe and is held in the other part which forms a frame or keeper for the said shoe.

The invention also consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claim.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement. Fig. 2 is an enlarged plan view of the improvement. Fig. 3 is a sectional side elevation of the same on the line 3—3 of Fig. 2 and showing the runner attached to the sleigh frame; and Fig. 4 is a cross section of the same on the line 4—4 of Fig. 2.

The improved sleigh runner is made in the two parts A and B, of which the part A forms a shoe and is made of chilled iron, and the part B forms a keeper shrunk on the said shoe, so that the two parts are firmly united with each other and are not liable to come apart. The keeper B has preferably an inverted U-shaped cross section, the sides of which engage the sides of the shoe A, and at the same time the said sides are slightly inclined to form a dove-tailed groove for the reception of the shoe A, which is slightly tapering in cross section, as indicated in Fig. 4.

The keeper B carries a series of bolts C adapted to pass through part of the sleigh frame D to fasten the latter and the runner securely together, as is plainly illustrated in Figs. 1, 3 and 4. In order to conveniently insert the bolts C in the keeper B, I provide the latter with apertures E, in the middle or top

portion, each aperture having an enlarged end for the passage of the head of the bolt C, and a reduced portion for the shank of the bolt, as will be readily understood by reference to Figs. 2 and 3.

The top of the shoe A is grooved or recessed at A' so as to make sufficient room for the head of the bolt to permit the latter to be inserted through the enlarged end of the aperture E, and then slipped longitudinally to engage the shank in the small part of the said aperture. The frame D of the sleigh is then provided with an aperture in the proper place, for the bolt C, so that the latter extends up through the frame, to receive a nut at its outer end for securely fastening the frame and shoe together. It will be seen that by this construction a sleigh runner is produced which is not liable to wear out, and which can be readily fastened to the frame D of the sleigh, no matter what especial construction of frame is used.

It is understood that the keeper B is preferably rolled in a hot condition onto the shoe A, so that the two parts of the runner are not liable to come apart. The rear end B' of the keeper B is turned down, as illustrated in Fig. 3, to prevent longitudinal movement of the shoe in the said keeper. The forward end of the runner is bent upward in the usual manner. It is understood that by this construction no bolts or rivets project downward in the shoe, the latter being solid from one end to the other.

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

A sleigh runner comprising a shoe having a dovetail head, and a keeper having a dovetail recess, the shoe further having a longitudinal depression in its upper surface, and the keeper having key-hole slots communicating with the depression of the shoe, the said slots permitting entrance of bolt heads at their larger ends and the depression of the shoe permitting a longitudinal movement of the keeper and shoe to engage the bolt heads, substantially as described.

WILLIAM DU BOIS.

Witnesses:

U. S. MESSITER,
F. M. DODGE.