W. CHEGWIN.
Sled.

No. 207,344. Patented Aug. 27, 1878.

Fig. 1.

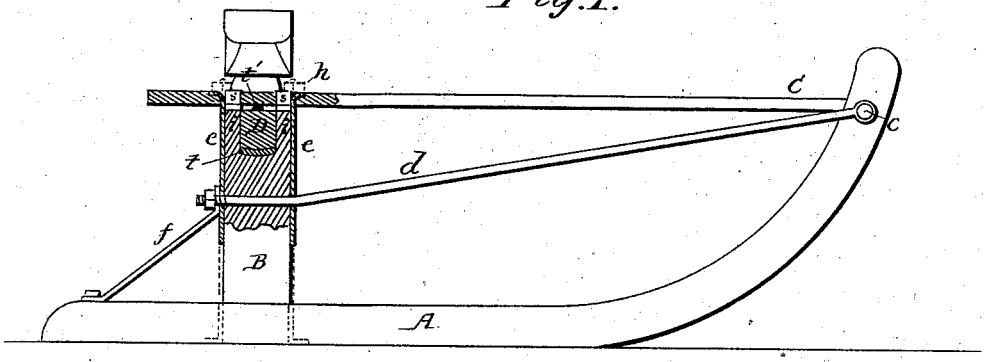


Fig. 2.

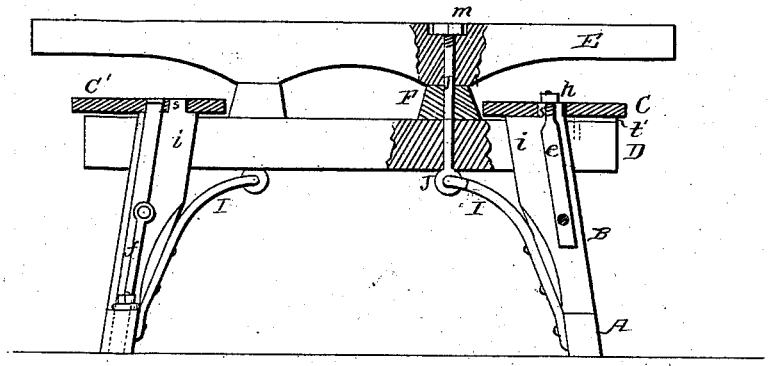
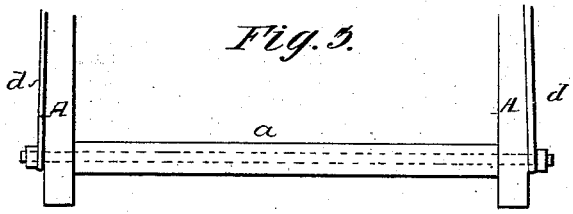


Fig. 3.



Attest:

Fred Benjamin.
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Wm Chegwin
By his attorney
Charles E. Foster

UNITED STATES PATENT OFFICE.

WILLIAM CHEGWIN, OF FOND DU LAC, WISCONSIN.

IMPROVEMENT IN SLEDS.

Specification forming part of Letters Patent No. **207,344**, dated August 27, 1878; application filed January 9, 1878.

To all whom it may concern:

Be it known that I, WILLIAM CHEGWIN, of Fond du Lac, Fond du Lac county, Wisconsin, have invented Improvements in Sleds, of which the following is a specification:

The object of my invention is an improved sleigh, constructed, as fully described hereinafter, to insure greater stability, strength, and durability.

In the drawing, Figure 1 is a sectional elevation of the sleigh; Fig. 2, a partial rear view, partly in section; and Fig. 3, a detached view.

A represents the runners, B the knees, C the raves, *a* the front cross-bar, and D the beam, of the sleigh, which are arranged in their usual position, the bolster E, provided with the stakes, resting on blocks F, supported by the beam D.

To the end of a bolt, *c*, extending through the cross-piece *a* and through the runners, is connected one end of a bolt or brace, *d*, which extends through plates *e* on opposite sides of the knee B, and through the eye of a diagonal brace, *f*, which is bolted at the lower end to the heel of the runner.

The knee is slotted at the upper end, leaving two prongs, *i*, between which passes the knee B, each prong having at the upper end a lug, *s*, which enters a recess in the rave, and to the under side of the beam, where it passes through the knee, is bolted a metal plate, *t*.

Each plate *e* extends upward through the rave, terminating in a threaded end, to which is adapted a nut, *h*, Fig. 2; or the end may be turned down, as shown in Fig. 1; and, if desired, the plates may be carried down through the runner, as shown in dotted lines, Fig. 1.

At the inside of each runner, below the knee, is bolted the lower end of a brace, I, jointed at its upper end to a bolt, J, extending through the beam, block F, and bolster E, and provided with a nut, *m*, or other fastening.

Any draft upon the front bar, *a*, instead of tending to break the runners, as heretofore, is sustained by the braces *b* and *f*, the latter also serving to prevent the knee from lifting from the runner. The plates *e* strengthen the knee, and further serve to secure the knee, beam, and rave together, the lugs *s* holding the rave in position.

The bolster is held upon the beam by the bolt J, and the braces I prevent the runner from spreading, the nuts *m* drawing them in should they work loose.

In order to prevent the beam and knee from wearing, I interpose the plate *t* between their contiguous faces; and a metal bar, *t'*, is also interposed between the rave and beam for a like purpose.

The front sleigh is constructed in like manner, except that the bolster turns on a central king-bolt, and that an iron plate, C', may be used in the top of the knee, Fig. 2.

I claim—

1. The combination, with the runner A, cross-bar *a*, and knee B, of the bolt *c*, brace *d*, connected to the bolt, and brace *f*, as and for the purpose specified.

2. The combination of the runner, beam D, bolster E, blocks F, brace I, bolt J, and nut *m*, as and for the purpose set forth.

3. The plate *t*, interposed between the beam D and knee B, as and for the purpose specified.

4. The plate *t'*, interposed between the rave and the beam, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM CHEGWIN

Witnesses:
M. M. GILLET,
K. GILLETT.