(No Model.)

J. JACKSON.

SLEIGH.

No. 255,791. Patented Apr. 4, 1882.

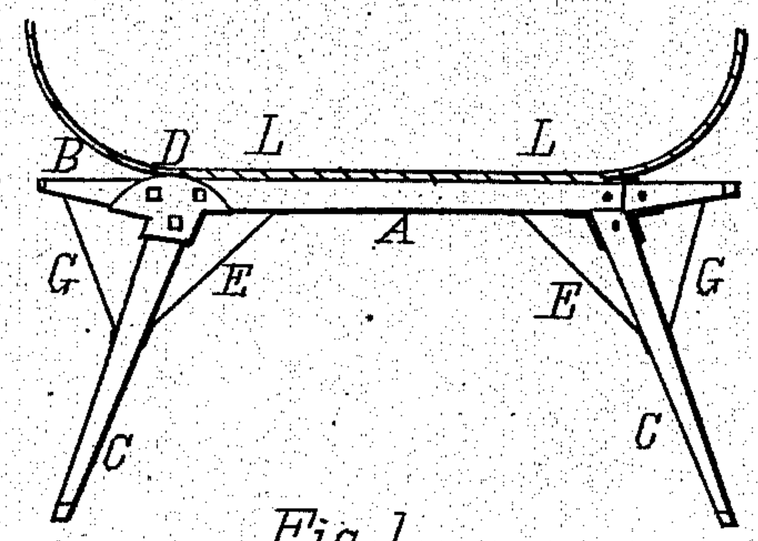

Fig. 1

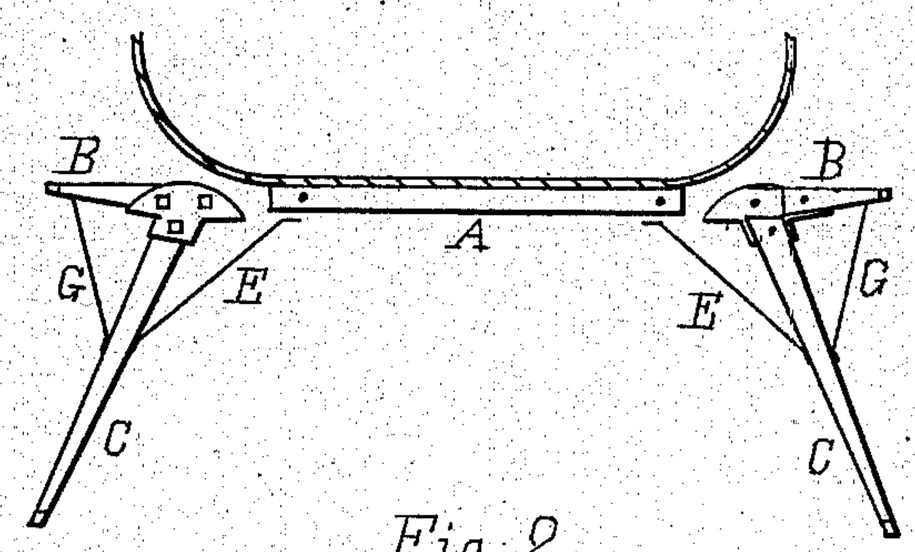

Fig. 2.

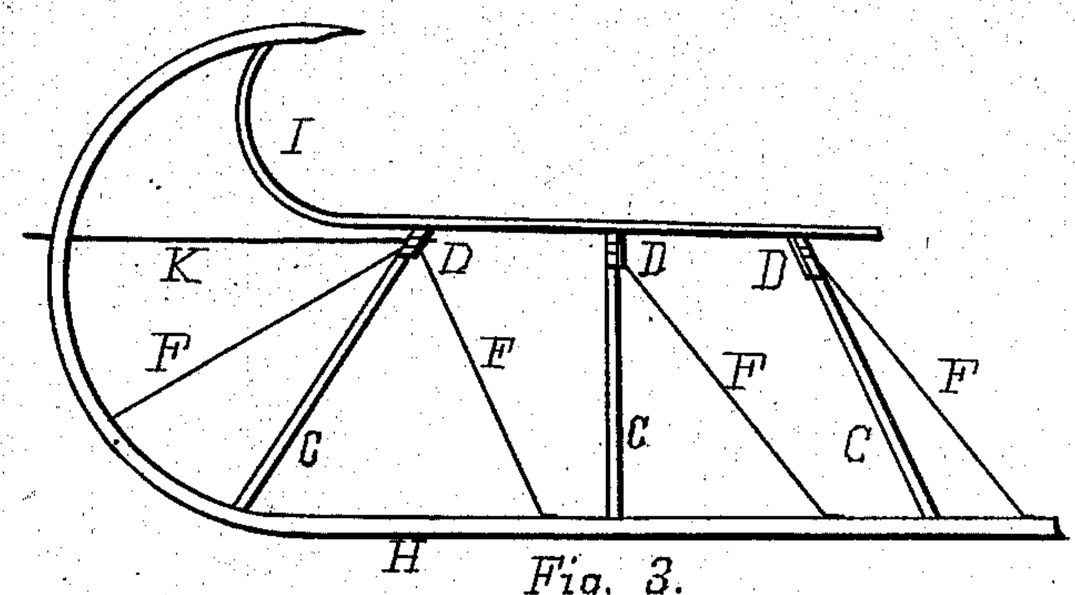

Fig. 3.

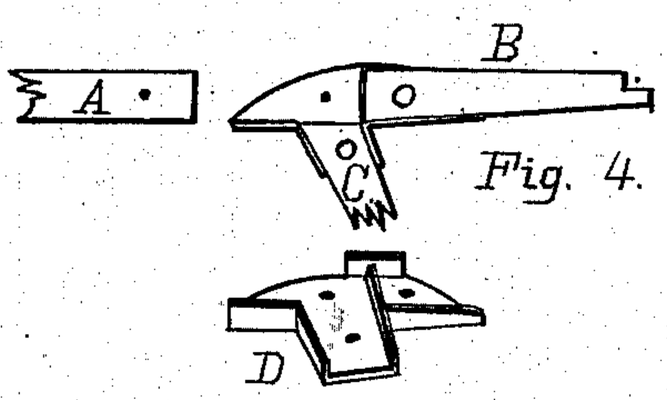

Fig. 4.

Fig. 6.

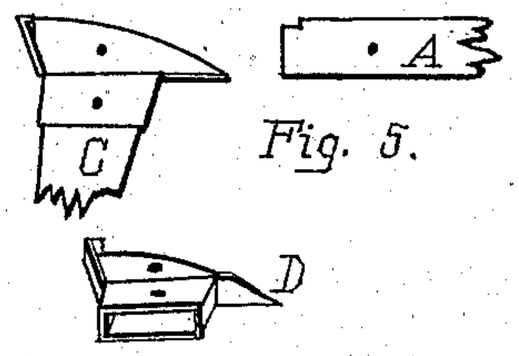

Fig. 5.

Fig. 7.

Witnesses:—
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UNITED STATES PATENT OFFICE.

JOHIEL JACKSON, OF FORT ATKINSON, WISCONSIN.

SLEIGH.

SPECIFICATION forming part of Letters Patent No. 255,791, dated April 4, 1882.

Application filed July 15, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHIEL JACKSON, a citizen of the United States, residing at Fort Atkinson, in the county of Jefferson and State of Wisconsin, have invented a new and useful Improvement in Sleighs, of which the following is a specification.

My invention relates to a class of light sleighs known as "cutters;" and the object of my improvement is to increase the strength of the knees, to facilitate repairs by making it easy to remove a broken piece, and to make the runners, knee-posts, fenders, and braces detachable from the beam and body, so that when made in large numbers in a factory, by detaching the runners, &c., without removing the paint or injuring the body, they may be cheaply packed for shipment, and, occupying little space, greatly reduce the expenses for freight.

I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a cross-section of knees attached to beam; Fig. 2, the same detached from beam; Fig. 3, side view of runner, knee-posts, fender, and braces, when detached from body. Figs. 4 and 5, angle-pieces with beam detached; Figs. 6 and 7, perspective view of angle-pieces.

Similar letters refer to similar parts throughout.

Cutter-knees are usually constructed by mortising the beam and tenoning the knee-post into it. I dispense with the mortise and tenon and construct a metal angle-plate, Figs. 4 and 6, having flanges between which the beam A, knee-post, C, and fender-stud B are bolted, or, as in Figs. 5 and 7, having a socket for the knee-post. The angle-piece may be a plate with flanges D, Fig. 6, or with sockets in which the beams, knee-posts, and fender-stud are driven. To the bottom of the body of the cutter I fasten permanently the beam A, Fig. 1. To the beam I bolt the angle-piece D, having also attached to said angle-piece the knee-post C and fender-stud B. To the knee-posts C are permanently attached the runners H, only one of which is shown in the drawings, braces E E, G G, F F F F, and draw-rod K, Fig. 3. To the fender-studs B B are permanently attached the fender I, Fig. 3, and the braces G G, Figs. 1 and 2.

The angle-piece may be constructed for fender-stud, as in Figs. 4 and 6, or without, as in Figs. 5 and 7. The strength of the knee is increased by the angle-piece, while, if a beam, knee-post, or fender-stud becomes broken it can be unbolted from the angle-piece and a new one substituted without injury to the other parts.

When the cutters are set up for use, in order to detach the runner-frames for shipment or close storage, it is only necessary to remove the nut from the upper end of the braces E E, Fig. 1, and the bolt L, Fig. 1, from beam and angle-piece, and withdraw the runner-frames from the beam and body, as in Fig. 2.

I am aware that a connecting-hub for sleighs, having a channel or groove for the reception of a beam, and a socket for the knee, is old, and such I do not wish to be understood as claiming broadly as of my invention.

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

1. In a sleigh or cutter, the combination, with the beam A, knee-post C, and fender-stud B, of the angle-plate D, having flanges or sockets for said parts A C B, and bolts for separately securing the parts in said angle-plate, as and for the purpose herein shown and described.

2. In a sleigh or cutter, the combination, with the beam A, knee-post C, and fender-stud B, of the angle-plate D, having flanges or sockets for said parts A C B, bolts for separately securing said parts in said angle-plate, and the braces E G, the several parts constructed and arranged relatively to each other, substantially as and for the purpose herein shown and described.

JOHIEL JACKSON.

Witnesses:
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