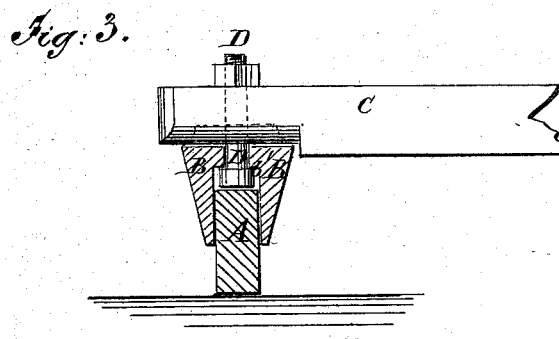
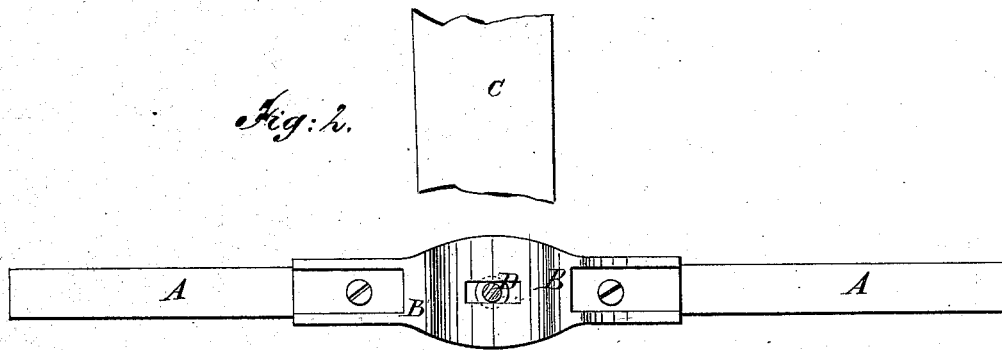
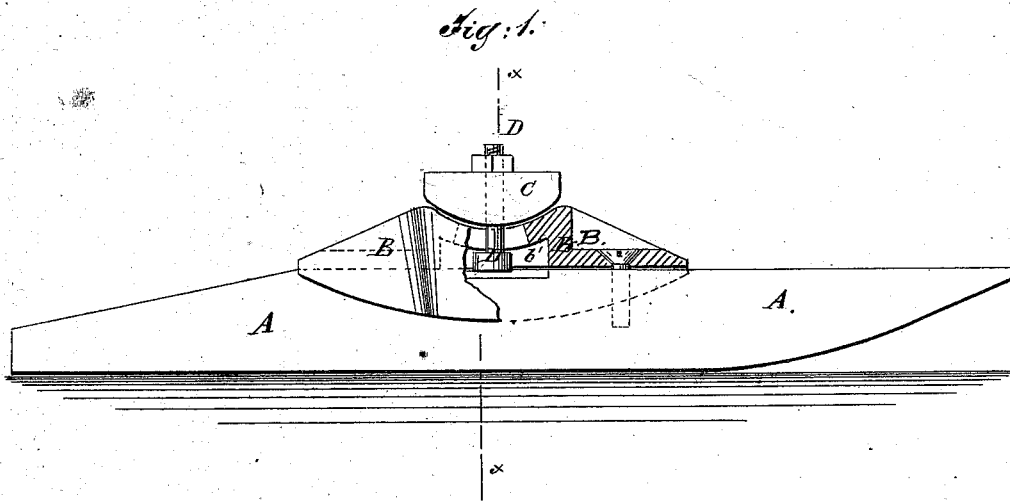


H. S. BARTLETT.

Log-Sled.

No. 163,042.

Patented May 11, 1875.



WITNESSES:

*C. H. N. A. C.*  
*A. J. Terry*

INVENTOR:

*Hiram J. Bartlett*  
BY *Mumford*  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

HIRAM S. BARTLETT, OF MIDLAND, MICHIGAN.

## IMPROVEMENT IN LOG-SLEDS.

Specification forming part of Letters Patent No. **163,042**, dated May 11, 1875; application filed March 20, 1875.

*To all whom it may concern:*

Be it known that I, HIRAM S. BARTLETT, of Midland, in the county of Midland and State of Michigan, have invented a new and useful Improvement in Logging-Sled, &c., of which the following is a specification:

Figure 1 is a side view of a logging-sled to which my improvement has been applied, part being broken away to show the construction. Fig. 2 is a detail top view of the same, part being broken away to show the construction. Fig. 3 is a detail cross-section of the same, taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to improve the construction of logging and other sleds, so as to make them stronger and more durable, and enable them to yield to accommodate themselves to uneven ground.

The invention consists in the saddle constructed and combined with the runner, the beam, and the bolt, as hereinafter fully described.

A represents a runner of the sled, about the construction of which there is nothing new. B is a saddle or knee, which is grooved upon its lower side to receive and fit upon the upper edge of the runner A, and is secured in place upon said runner by screws or bolts.

The upper side of the saddle B is concaved to receive the rounded lower side of the end of the beam C. In the lower side of the middle part of the saddle B is formed a recess, *b'*, curved upon the arc of a circle having a common center with the arc of the concave of the top of said saddle. The recess *b'* is designed to receive the head of the bolt D, which bolt passes up through a short slot in the saddle B, and through a hole in the beam C, and has a nut screwed upon its upper end.

This construction allows the runner to adjust itself to uneven ground, while the beam is held in place by a reach passing from the forward beam to the hind one. The saddle B also strengthens the runner A, and renders it less liable to split or break.

I am aware of the existence of a sled in which a rocking cap-plate is combined with a runner-knee having an arc-shaped surface.

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

The saddle B, combined with the runners A, the beam C, and the bolt D, substantially as shown and described.

HIRAM S. BARTLETT.

Witnesses:

GEO. P. BARTLETT,  
GEO. F. WHITE.