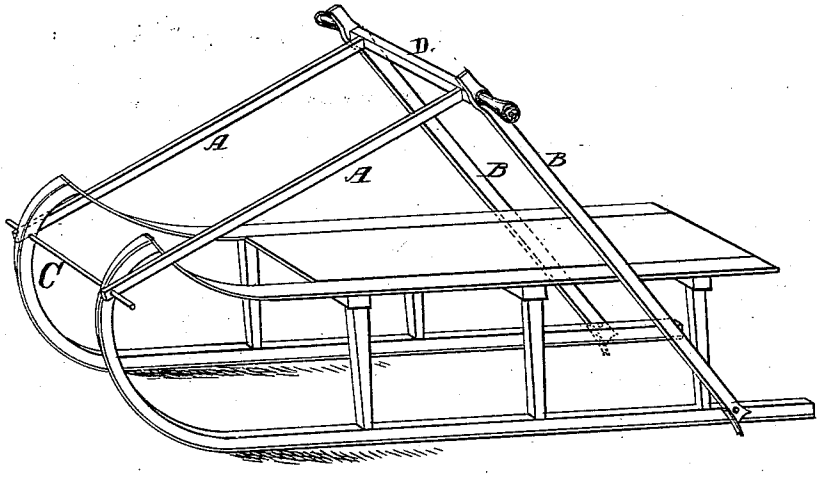
G. F. SHAVER.

SLED-PROPELLER.

No. 192,461. Patented June 26, 1877.

Fig. 1.



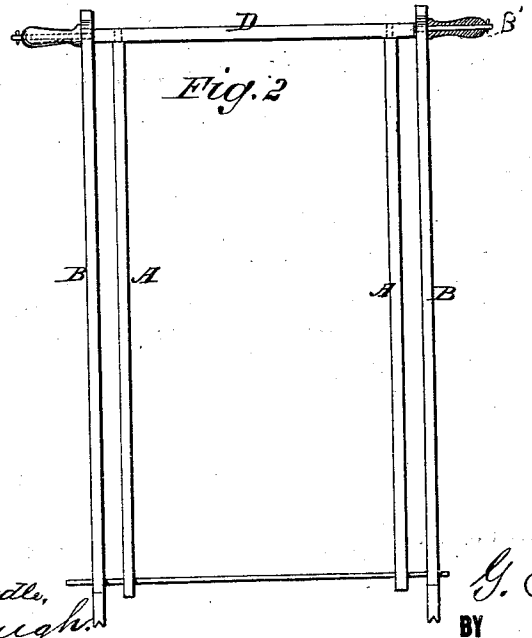


Fig. 2

WITNESSES:

Francis McArdle.

J. H. Scarborough.

INVENTOR:

G. F. Shaver.

BY

ATTORNEYS.

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UNITED STATES PATENT OFFICE.

GEORGE F. SHAVER, OF MOORHEADVILLE, PENNSYLVANIA.

IMPROVEMENT IN SLED-PROPELLERS.

Specification forming part of Letters Patent No. **192,461**, dated June 26, 1877; application filed March 3, 1877.

To all whom it may concern:

Be it known that I, GEORGE F. SHAVER, of Moorheadville, Erie county, Pennsylvania, have invented an Improvement in Sled-Propellers, of which the following is a specification:

Figure 1 of the drawing is a perspective view, and Fig. 2 a plan view, partly in section.

The invention will first be described in connection with the drawing, and then pointed out in the claim.

A A are two bars, connected, by a cross-bar, C, with front of sled, and at the upper end by a cross-bar, D. The ends of the latter are extended to form pivots, on which the propelling-bars B and their rigidly-attached handles B′ are journaled.

It will thus be seen that if the handles are worked through the radius of the upper third of the stroke, great speed can be obtained on ice, where there is little resistance, while if the levers are worked at an obtuse angle, or in the radius of the lower third of the stroke, sufficient power is obtained to travel on a level or uphill, where considerable resistance is to be overcome.

Having described all that is necessary to a full understanding of my invention, what I claim as new is—

A sled whose propellers B and their rigidly-attached handles B′ are journaled on extension-end pivots of the cross-bar D, as and for the purpose specified.

G. F. SHAVER.

Witnesses:
E. M. CAMP,
S. S. HAMMOND.