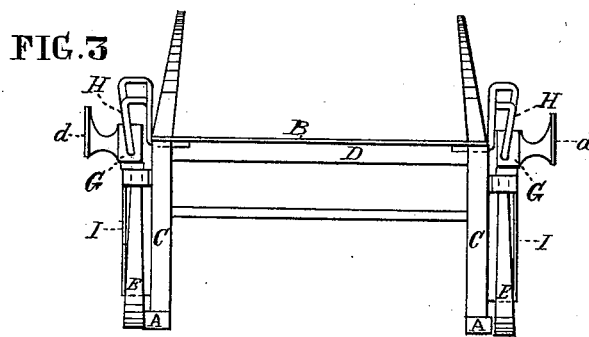
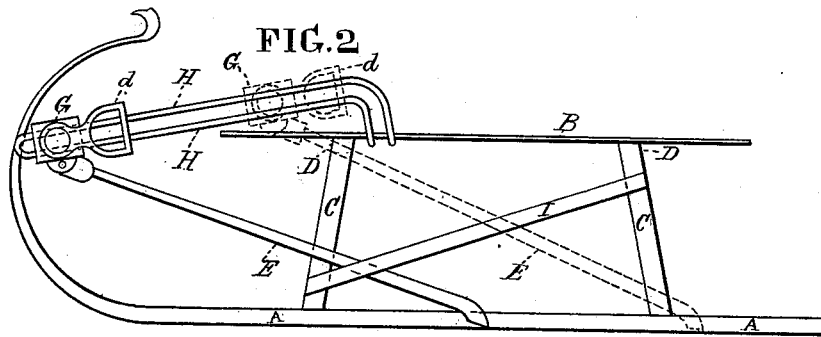
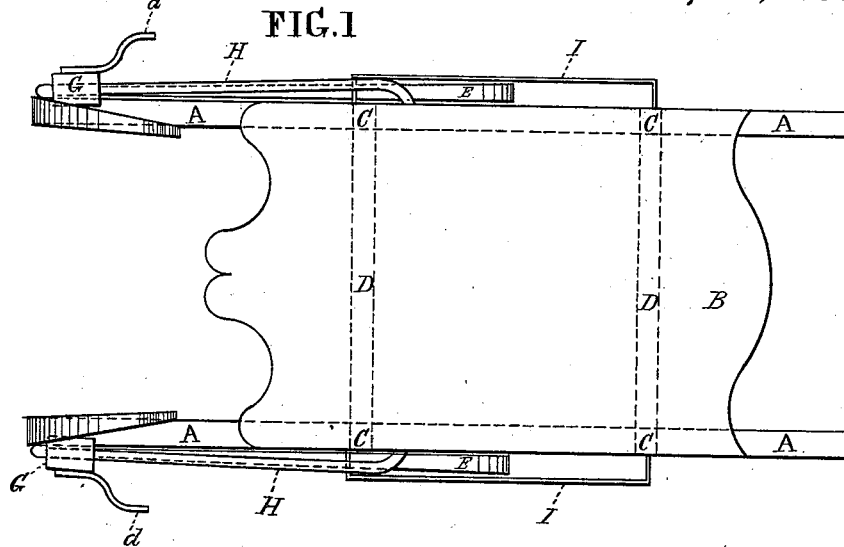


R. STEEL.  
Sled-Propeller.

No. 215,988.

Patented May 27, 1879.



Witnesses.

Thomas J. Dewley.

S. H. Millett.

Inventor.

Robert Steel.

per Stephen W. Steel, attorney

# UNITED STATES PATENT OFFICE.

ROBERT STEEL, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN SLED-PROPELLERS.

Specification forming part of Letters Patent No. **215,988**, dated May 27, 1879; application filed April 19, 1879.

*To all whom it may concern:*

Be it known that I, ROBERT STEEL, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Children's Sleds, of which the following is a specification.

The nature of my invention consists of a pushing-rod at each side of the sled, provided with a slide at its forward end, and having its rear end pointed or shod, in combination with ways. The slides are pivoted to the rods and provided with handles for giving them a reciprocating movement on the ways for propelling the sled. The ways have an upward inclination to give an easy pull in operating the pushing-rods, as hereinafter fully described.

In the accompanying drawings, Figure 1 is a plan view of the sled having my improvements. Fig. 2 is a side elevation of the same. Fig. 3 is a rear elevation.

Like letters of reference in all the figures indicate the same parts.

A A represent the runners, and B the seat, which is supported by means of the posts C C C C and cross-bars D D, in the usual manner. E E are pushing-rods, which are pointed at their rear ends, as represented, or shod, for taking hold of the ground or the ice or snow. Their front ends are connected with the slides G G on the ways H H at the sides of the sled.

The front ends of the ways are riveted to the turned-up ends of the runners A A, and their

rear ends to the under side of the seat B, these ends having vertical parts to elevate them above the seat and give them an upward inclination, as represented in Fig. 2, to give ease to the movement of the slides G G in the operation of the pushing-rods E E.

The ways are represented in the drawings as made of rods bent in the middle to form parallel parts having the proper width, and the slides G G have corresponding holes to fit them; but the ways may as well be made of flat bars of iron.

The slides are provided with handles *d d*, for giving them the reciprocating movement on the ways. At each forward movement of the slides they are brought to the front ends of the ways, and, being pulled, are brought to the rear ends thereof, whereby the sled is sent forward a considerable distance at each pull.

I I are guides for the rear ends of the pushing-rods E E.

I claim as my invention—

The pushing-rods E E, having pivoted slides G G, provided with handles *d d*, in combination with the runners A A, having inclined ways H H, substantially in the manner and for the purpose set forth.

ROBERT STEEL.

Witnesses:

THOMAS J. BEWLEY,  
STEPHEN USTICK.