

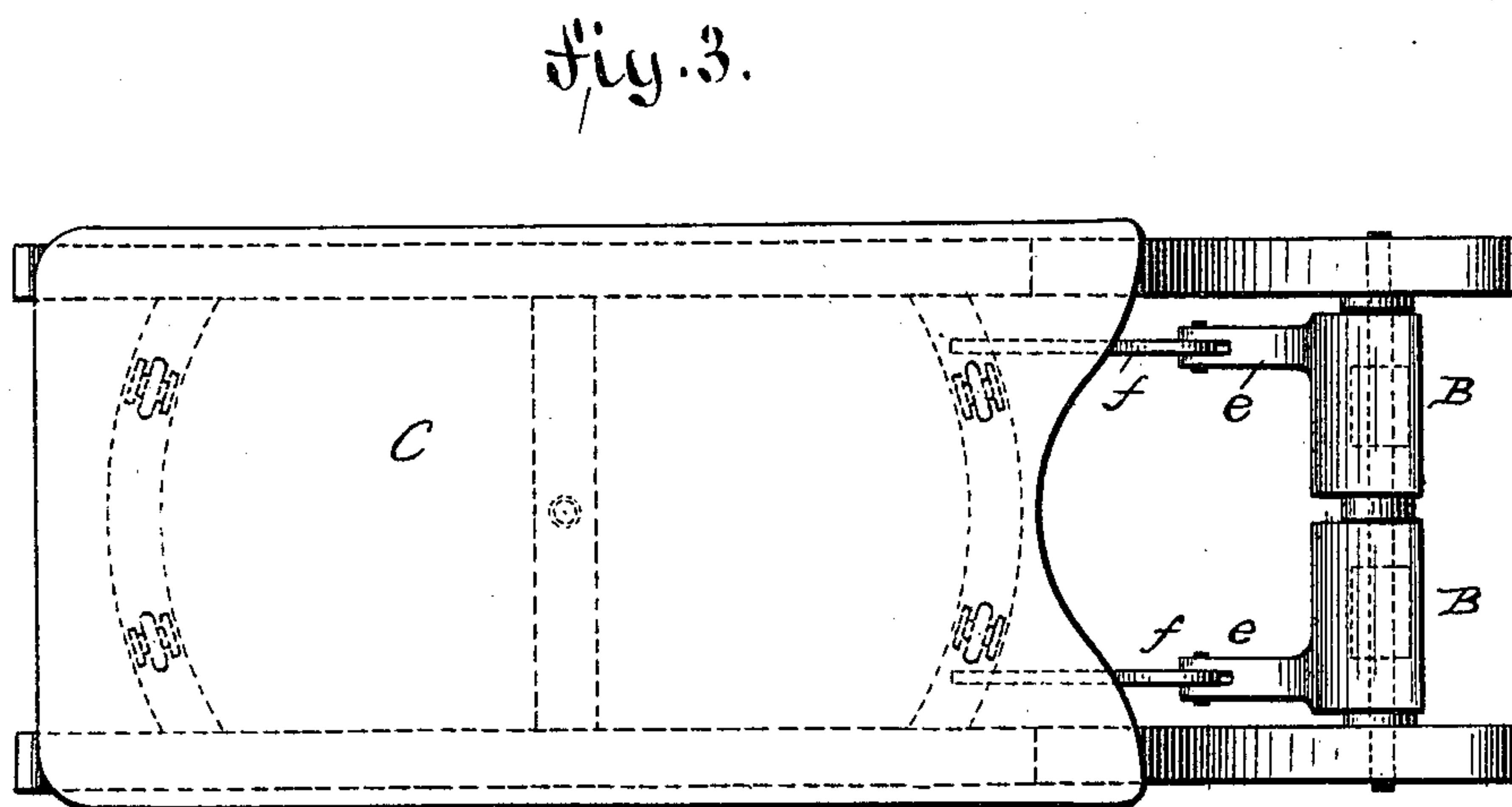
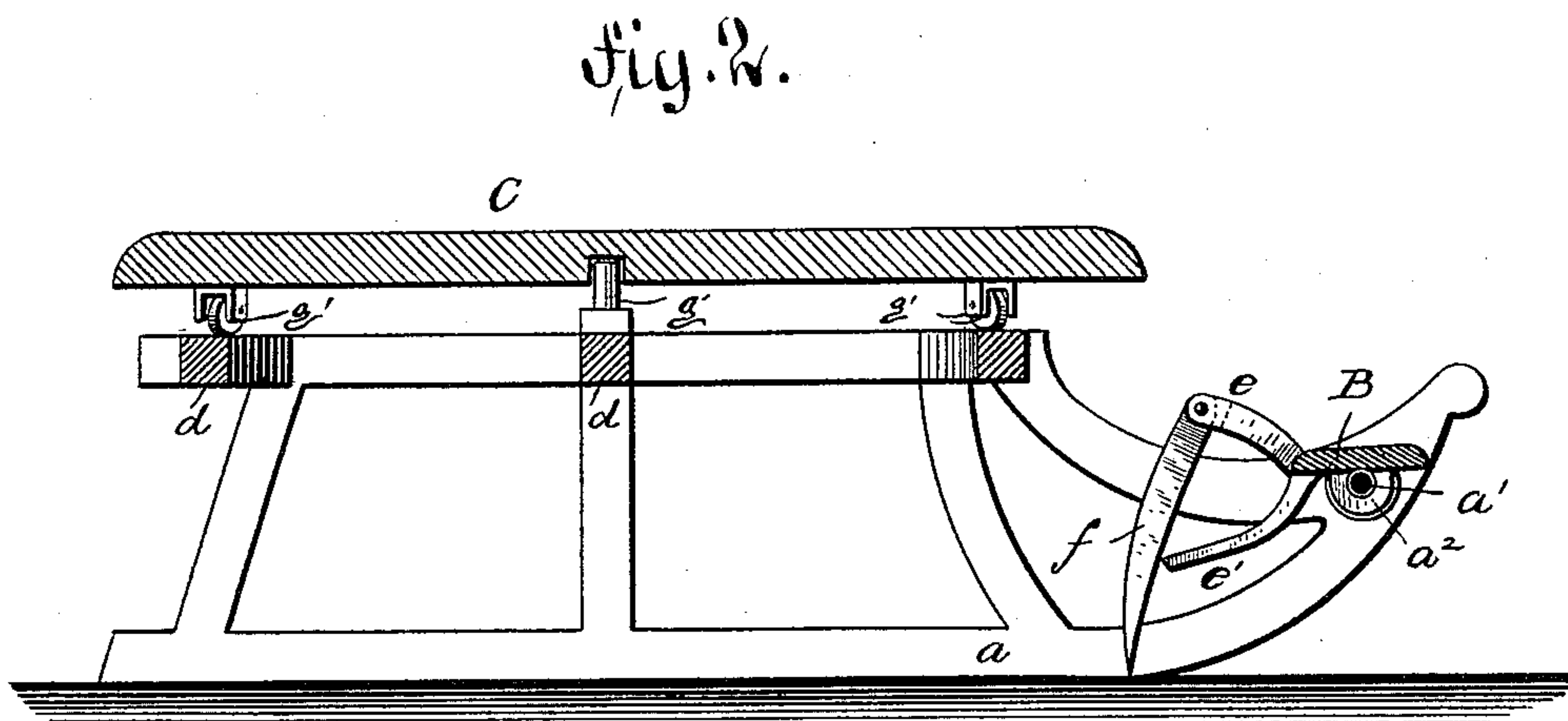
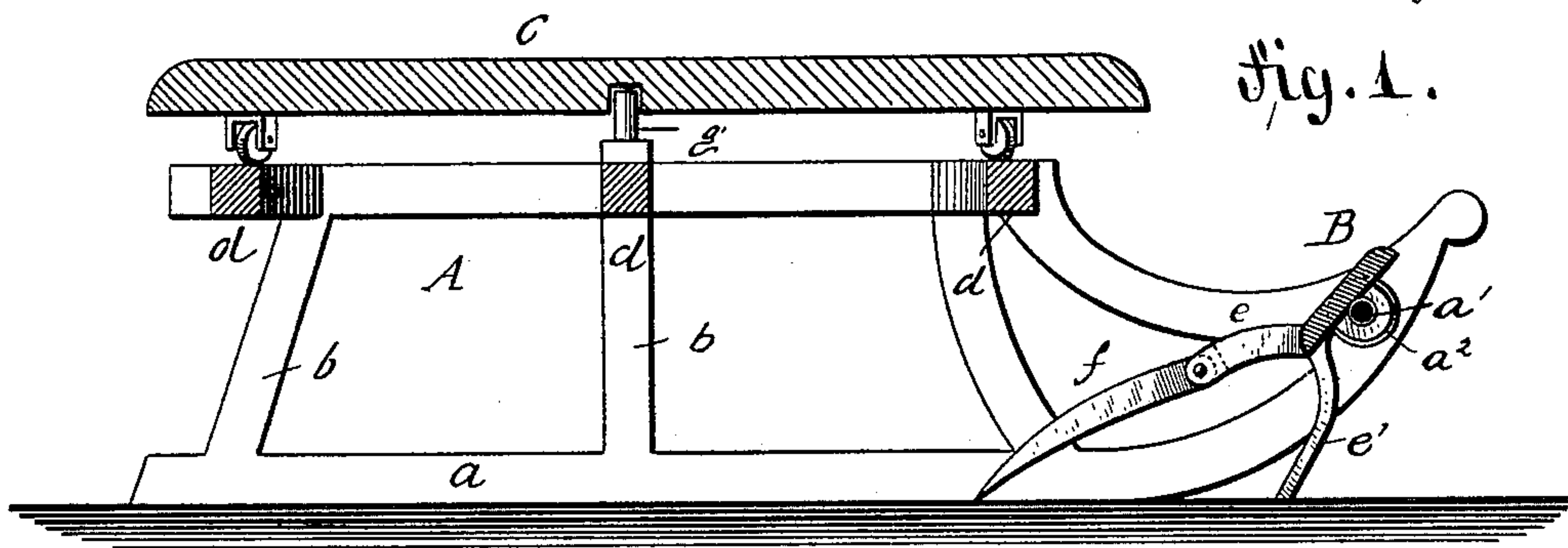
(No Model.)

A. WOLFF.

SLED.

No. 365,161.

Patented June 21, 1887.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ADOLPH WOLFF, OF ROCHESTER, NEW YORK.

SLED.

SPECIFICATION forming part of Letters Patent No. 365,161, dated June 21, 1887.

Application filed May 2, 1887. Serial No. 236,764. (No model.)

To all whom it may concern:

Be it known that I, ADOLPH WOLFF, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Sleds, of which the following is a specification.

This invention has reference to an improved sled for the use of children, which can be propelled forward by the feet and steered by the legs in conjunction with the weight of the body; and the invention consists of a sled the frame of which is provided at the front part with a transverse shaft, to which are hinged oscillating treadles having fixed arms projecting therefrom, the shorter arms being provided with hinged pusher-rods having pointed ends, while the longer arms serve as stops to limit the motion of the treadles. The seat of the sled is centrally pivoted to the frame and supported by rollers on the arc-shaped transverse braces of the frame for the purpose of steering the sled in connection with the pushers operated by the feet.

In the accompanying drawings, Figures 1 and 2 represent vertical longitudinal sections of my improved sled for children, showing the treadles and pusher-rods of the same in different positions; and Fig. 3 is a plan of the same.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents the supporting-frame of my improved sled for children, which frame is made of wood or other suitable material and provided with runners *a*, uprights *b b*, and transverse braces *d d*. The runners *a a* are curved in upward direction at their front parts and connected by a transverse shaft, *a'*, to which are hinged, by means of sleeve-shaped eyes *a''*, two treadles, B B, which are operated by the feet of the child sitting on the sled. Each treadle B is provided with an upper shorter arm, *e*, and a lower longer arm, *e'*, both extending toward the rear from the treadle B. To the upper arm, *e*, is hinged a pusher-rod, *f*, that is pointed at the end, said pusher-rod serving to propel the sled forward by the action of the feet on the treadles. The longer arms *e'* serve as stop-arms by which the oscillating motion of the treadles B is limited. They form contact with the ground when the treadles are in

inclined positions, as shown in Fig. 1, and may be used as brakes. When the treadles are moved into a nearly-horizontal position, as shown in Fig. 2, the pusher-rods are drawn forward and lifted into position for the next downward motion of the treadles, by which a forward motion is imparted to the sled by means of said pusher-rods.

The seat C is centrally pivoted on a pivot, *g*, on the middle transverse brace *d* of the supporting-frame A, and supported by rollers *g'* on the end braces *d*, which are preferably made arc-shaped, as shown in Fig. 3. By pivoting the seat C to the supporting-frame A the former may readily be moved by the body into a position at an angle to the longitudinal axis of the supporting-frame A, and thereby the sled steered by the displacement of the weight of the body on the frame and by varying pressure exerted by the feet.

I am aware that sleds have been propelled by being pushed forward by means of levers operated by the hands or feet, but I am not aware that the arrangement of the pusher-rods, in connection with the treadles and the stop-arms by which the stroke of the said pusher-rods is limited, has been used heretofore.

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

1. The combination, with the supporting-frame of a sled, of a transverse shaft at the front part of the same and treadles hinged on said shaft and provided with arms, and pusher-rods hinged to said arms, and with downwardly-extending rigid stop-arms, substantially as set forth.

2. The combination, with the supporting-frame of a sled, of a transverse shaft at the front part of the same, treadles hinged on said shaft, provided with arms having pivoted pusher-rods and downwardly-extending stop-arms, and a centrally-pivoted seat supported by the rollers on the upper part of the supporting-frame, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ADOLPH WOLFF.

Witnesses:

E. G. WULFF,
FRZ. KAULMANN.