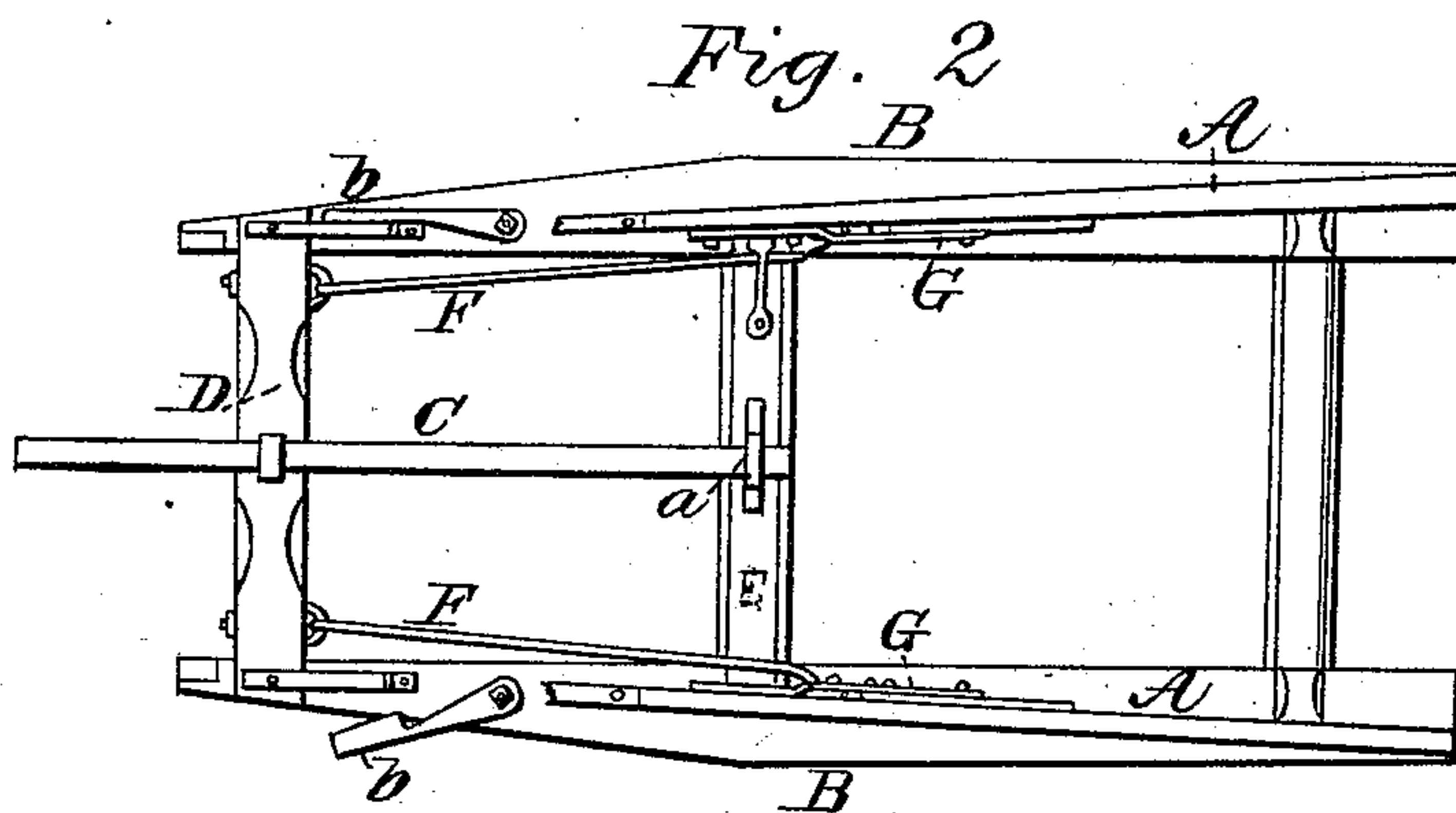
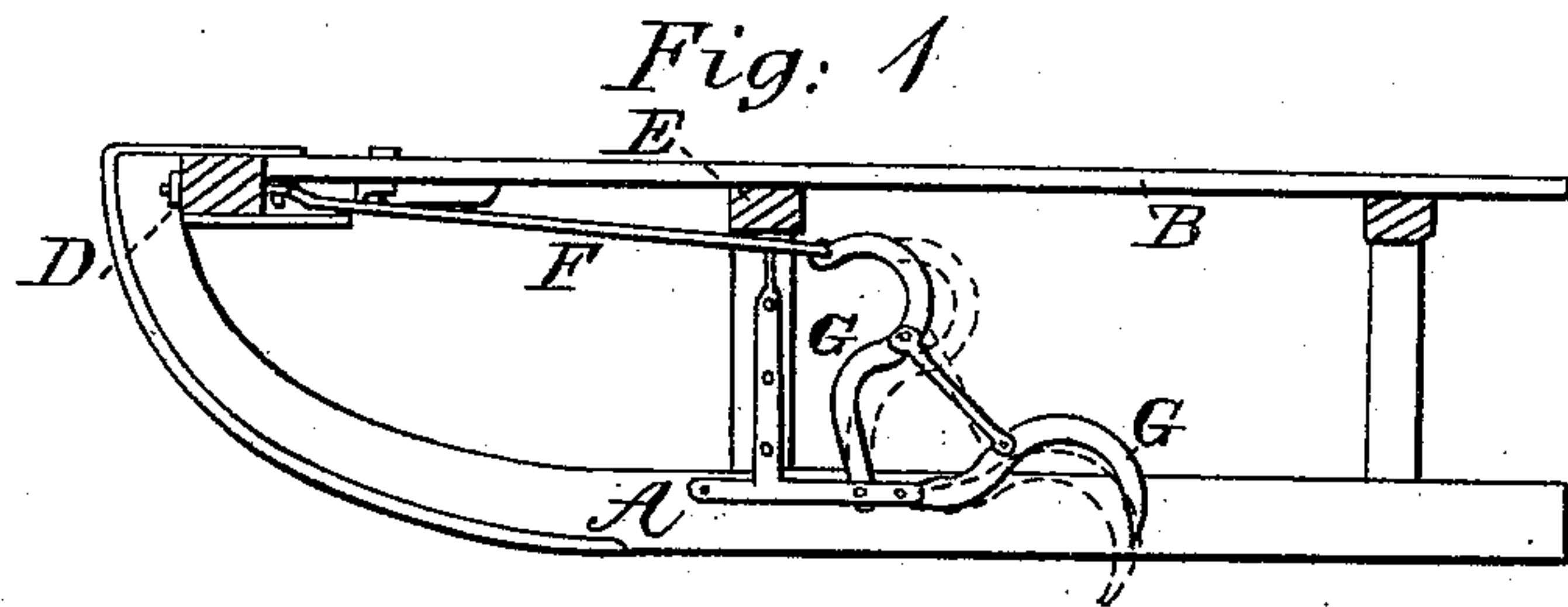


J. & W. WOLFE.

Sleigh.

No. 96,529.

Patented Nov. 2, 1869.



Witnesses:  
*Leopold Baum*  
*A. M. Klam*

Inventors  
*Judson Wolfe*  
*Willow Wolfe*  
per *Charles Mason*

# United States Patent Office.

JUDSON WOLFE AND WILSON WOLFE, OF HARVEYVILLE, PENNSYLVANIA.

Letters Patent No. 96,529, dated November 2, 1869.

## IMPROVEMENT IN SLEIGH-BRAKE.

The Schedule referred to in these Letters Patent and making part of the same

*To all whom it may concern:*

Be it known that we, JUDSON WOLFE and WILSON WOLFE, of Harveyville, in the county of Luzerne, and in the State of Pennsylvania, have invented certain new and useful Improvements in Sleigh-Brakes; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of our invention consists in the construction and arrangement of a "self-acting sleigh-brake," so constructed that by the backing of the team the brake will act.

In order to enable others skilled in the art to which our invention appertains, to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawings, which form a part of this specification, and in which—

Figure 1 is a longitudinal vertical section, and

Figure 2 is a bottom view.

A A represent the runners of the sled B, constructed in any of the known and usual ways.

C is the tongue, secured to a sliding cross-beam, D, and passes to the rear into a loop, *a*, on the under side of the beam E.

The beam D slides in loops or grooves in the bed of the sleigh, and is, by rods F F, connected with two curved levers G G, pivoted, one to each runner, on the inside.

The lower ends of these levers are sharpened and formed in a sort of hook-shape, as seen in fig. 1.

When the sleigh is being drawn by the team these hook-ends of said levers are out of the way entirely, being raised above the lower edge of the runners; but when the team is backing, the beam D slides backward, and, by means of the rods or bars F F, presses the levers, so that the hooks project below the runners, and penetrate into the snow or ice sufficient to answer the purpose.

Buttons *b b* are pivoted to the under side of the bed of the sleigh, which may be turned into the loops or grooves in which the cross-bar D slides, so as to prevent the bar from sliding when it is not desired to use the brake.

The tongue C may be either stiff or limber; the brake will operate in the same manner with both.

Having thus fully described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The combination of the buttons *b*, bar D, rods F F, curved bars G G, pivoted and connected together, bar E with loop *a*, and sliding tongue C, all substantially as specified.

In testimony that we claim the foregoing, we have hereunto set our hands, this 8th day of March, 1869.

JUDSON WOLFE.  
WILSON WOLFE.

Witnesses:

JAMES M. TURNER,  
WM. DAVENPORT.