

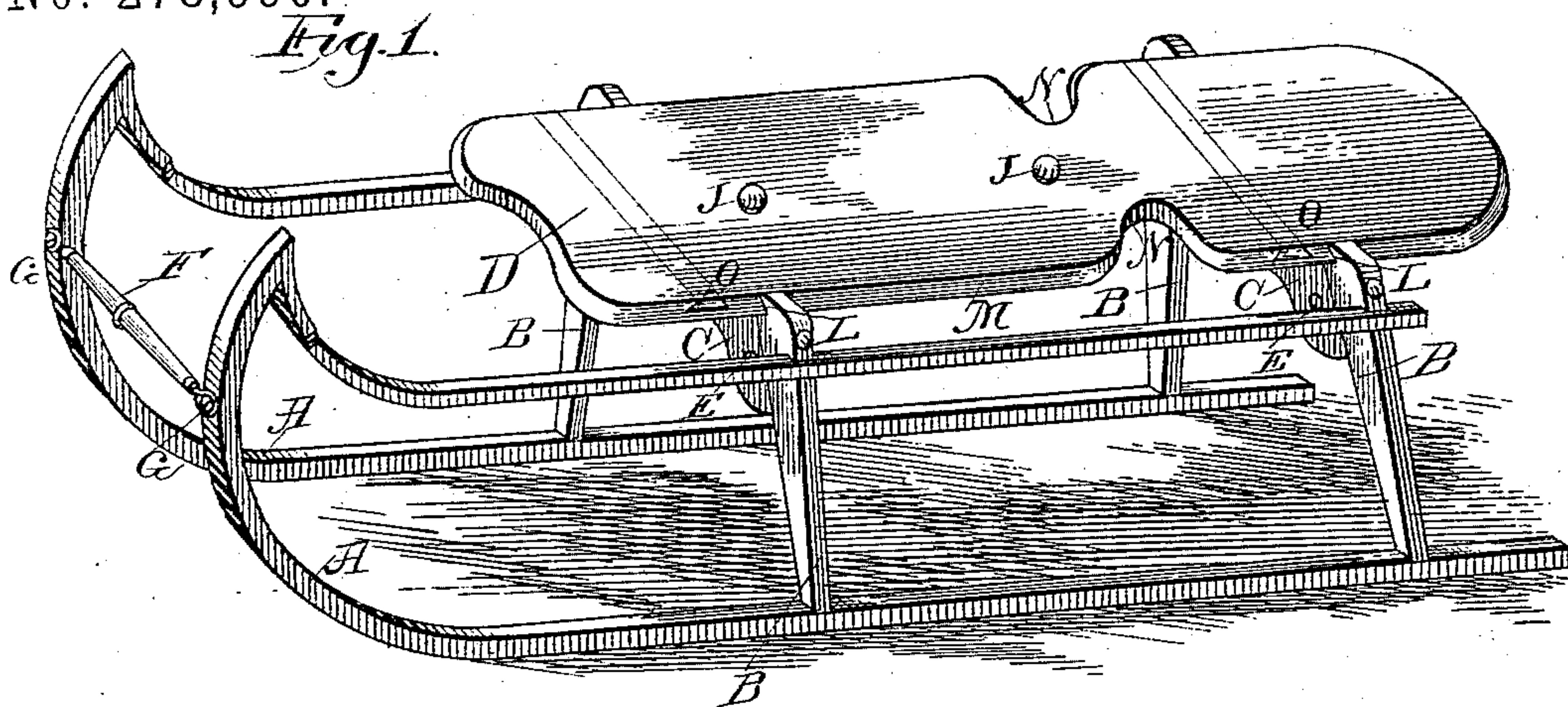
(No Model.)

F. MEINECKE.

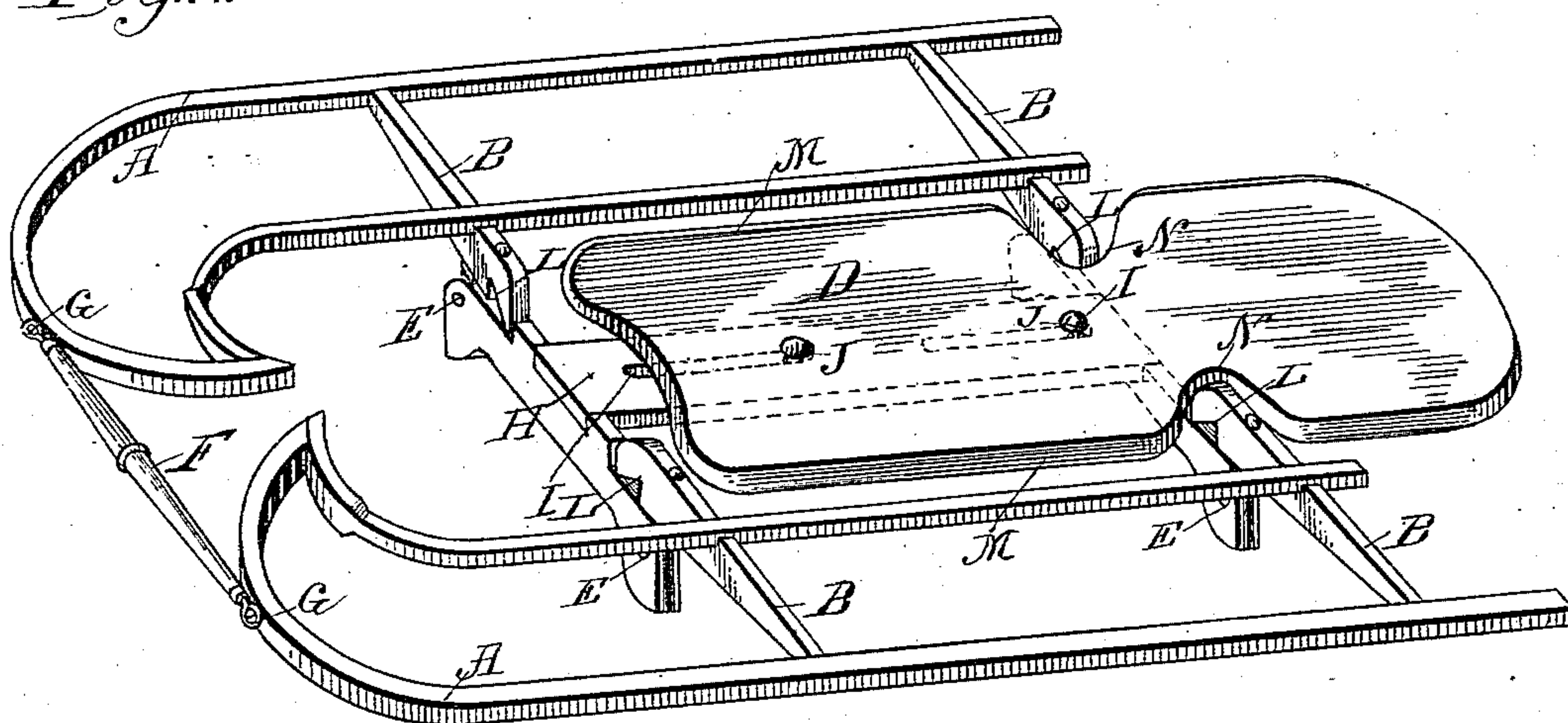
FOLDING SLEIGH.

No. 278,990.

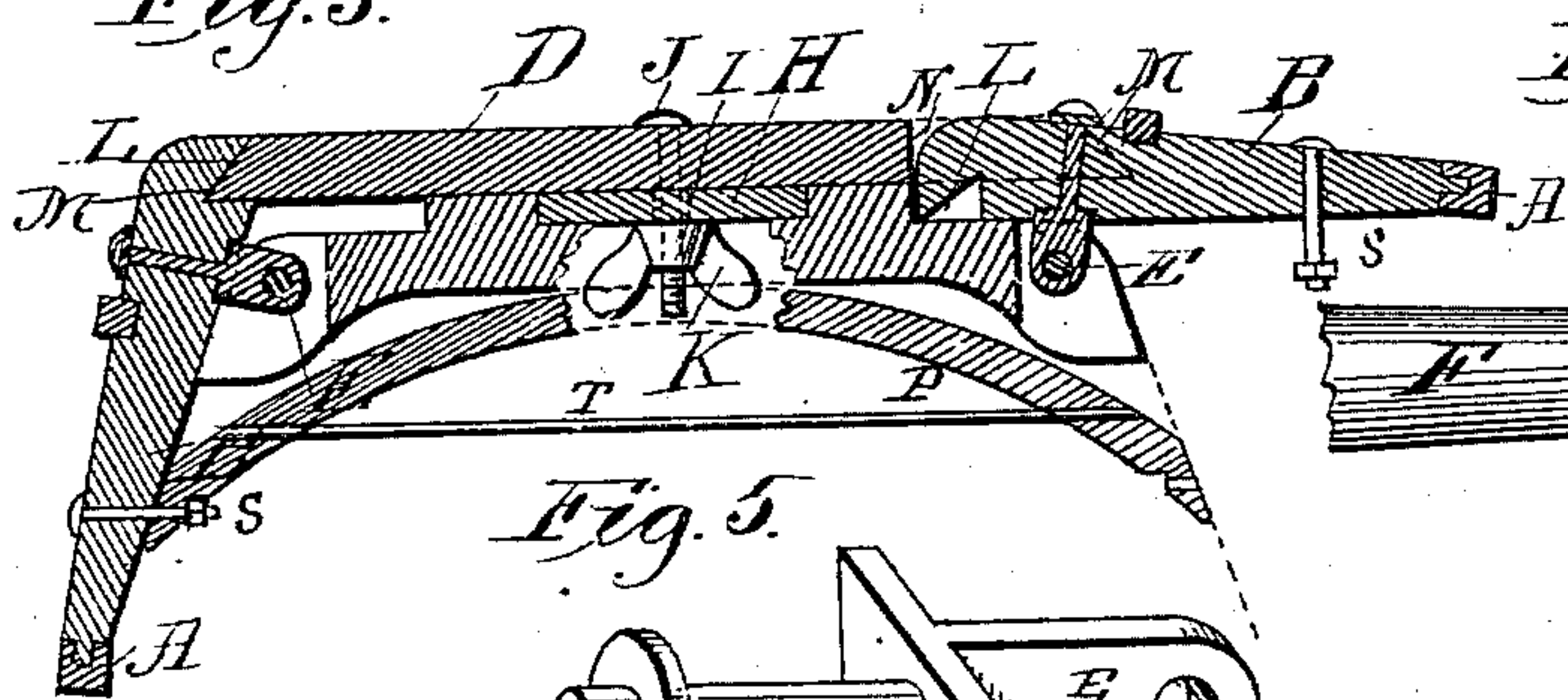
Patented June 5, 1883.



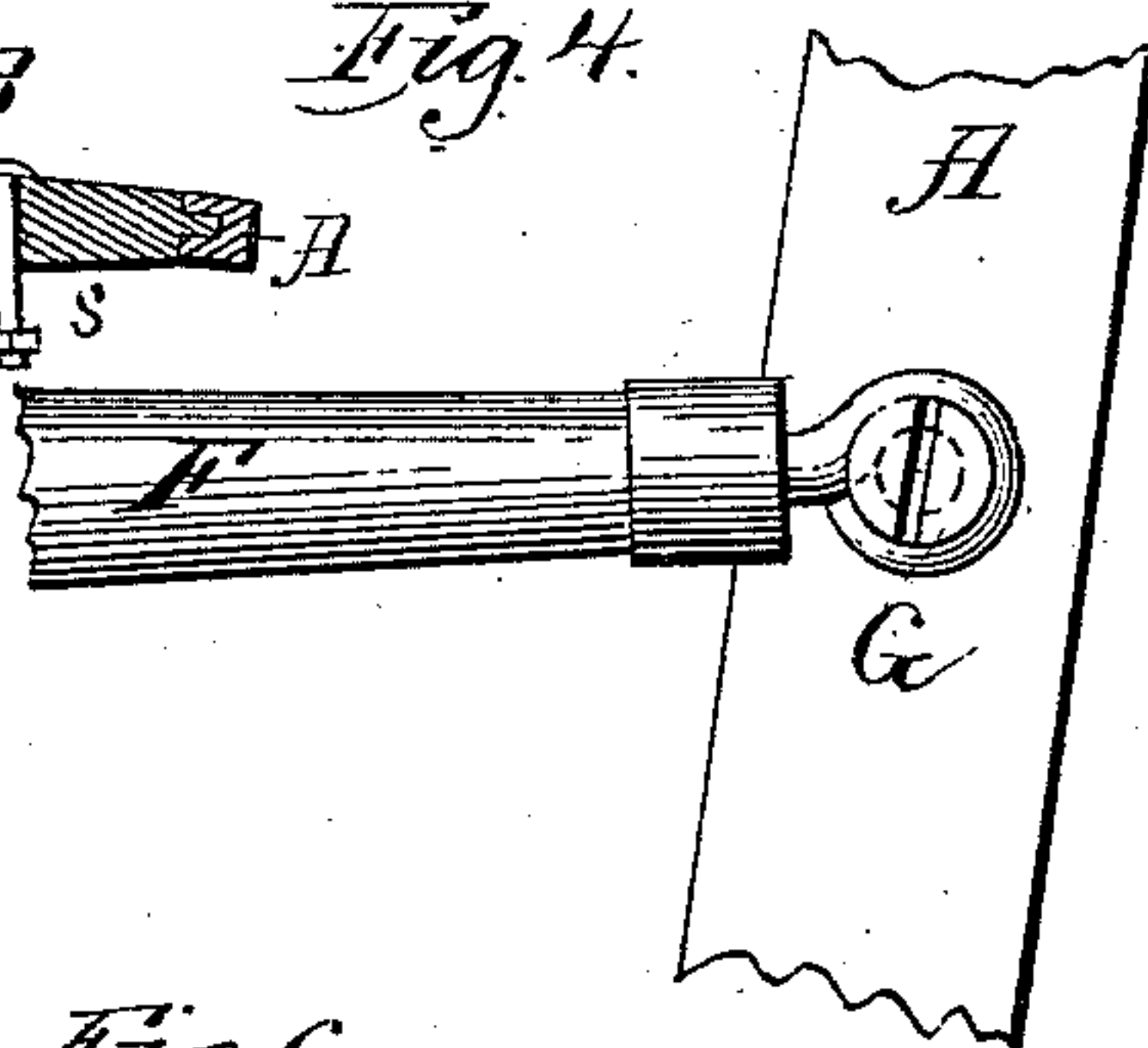
*Fig. 2.*



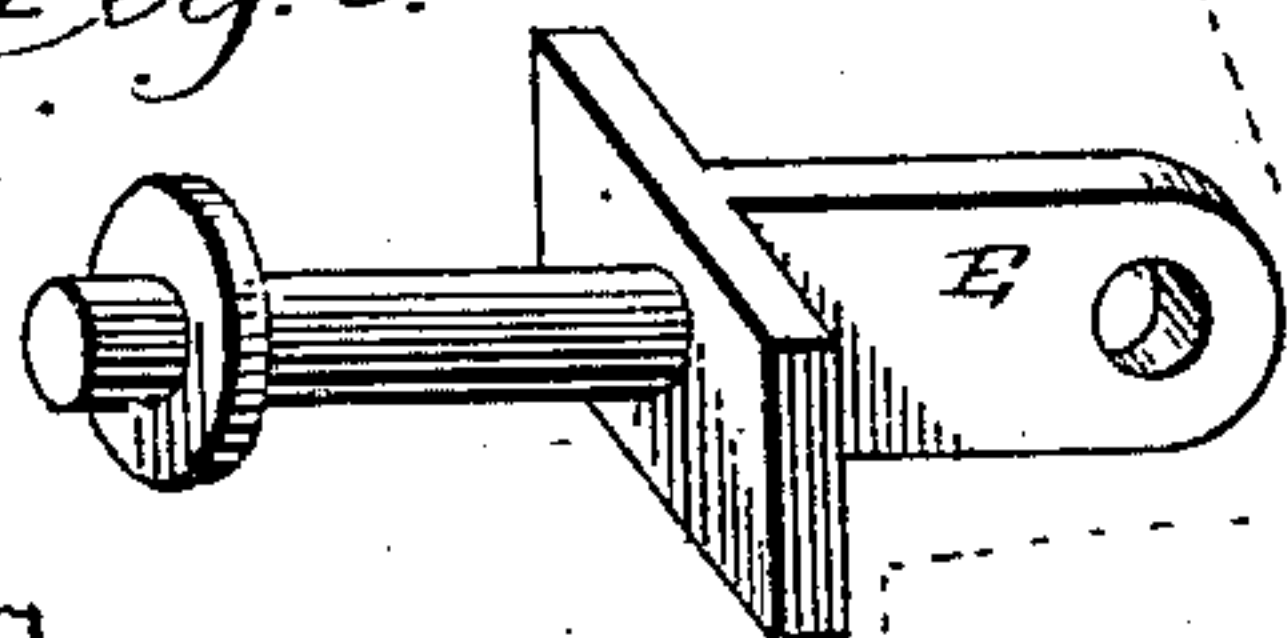
*Fig. 3.*



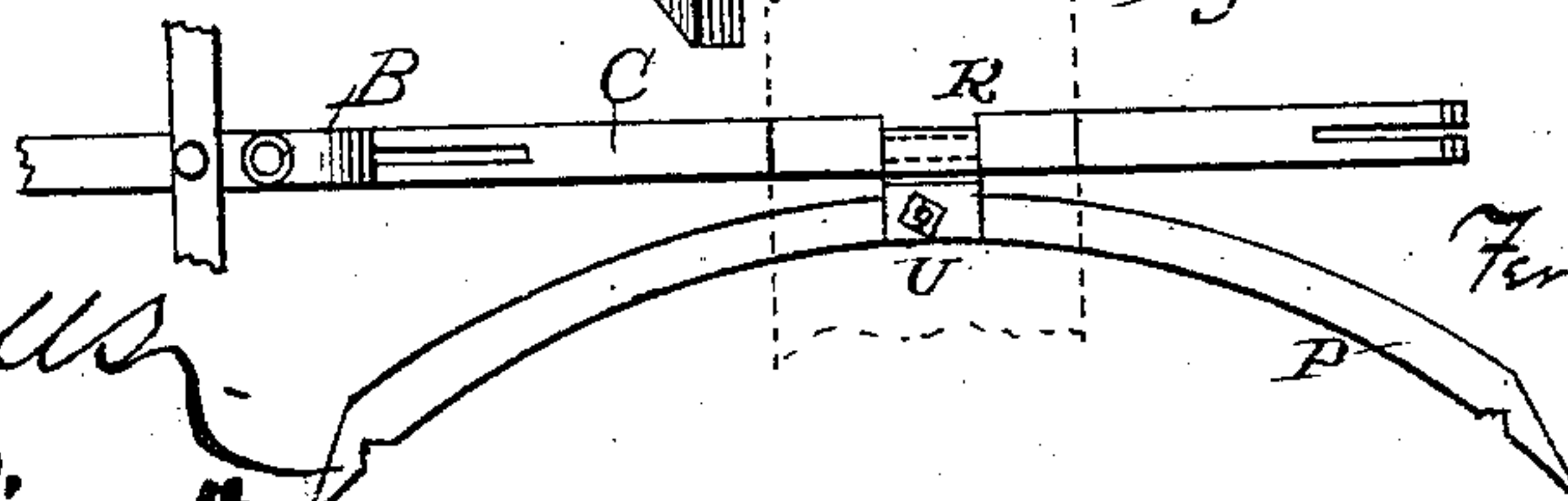
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



Witnesses:

*E. G. Adams*

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*By Jas. D. E. Smith*

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# UNITED STATES PATENT OFFICE.

FERDINAND MEINECKE, OF MILWAUKEE, WISCONSIN.

## FOLDING SLEIGH.

SPECIFICATION forming part of Letters Patent No. 278,990, dated June 5, 1883.

Application filed November 2, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, FERDINAND MEINECKE, a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Folding Sleighs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in hand-sleighs.

The object of my improvements is to provide a sleigh which may be folded in a compact form for shipping.

The construction and manner of folding and unfolding my sleigh are further explained by reference to the accompanying drawings, in which—

Figure 1 represents a perspective view of the same. Fig. 2 shows the relative position of the parts in position for shipping. Figs. 3, 4, 5, and 6 are detail views.

Like parts are represented by the same reference-letters throughout the several views.

A A are the runners. B B B B are the knees. c c are the beams. D is the sliding adjustable board or seat of the sleigh. P are the knee-braces, similar braces being attached to both beams.

The knees B are secured to the beams c by hinge-joints E E E E, and the draw-bar F is attached to the runners A by pivoted screws G G, which hinges and pivots permit the runners to be turned outward on the same plane with the seat D, as shown in Fig. 3. The beams c c are rigidly connected together by the board H.

The board H is provided with slots I I, for the reception of adjusting-bolts J J, by which bolts the seat is secured to the board H. The heads of the bolts J J are rigidly secured to the seat, while the lower ends extend down through said slots I I, whereby I am enabled, by loosening the nuts K, to move said seat backward or forward to the two positions shown by Figs. 1 and 2.

The upper ends of the knees B extend above the upper surface of the board D, and respect-

ively provided with recesses L for the reception of the beveled edges M M of said board D. The rear end of the seat or board D is made slightly wider than the front end, it being gradually tapered outward from its front toward its rear end, so that as said board is pressed forward between the upper ends of said knees they are forced apart from each other and thus rigidly retained.

The braces P P are secured at their centers to the centers of the beams c c by the clasps R and bolt U. The centers of the beams are rounded for the reception of the clasps, whereby they permit said braces to be turned from a vertical to a horizontal position in line with the runners and bottom when folded.

The lower ends of the braces are adapted to be rigidly secured to the knees by bolts S S. T is a strengthening-rod to the braces P P.

If desired, the braces P may be dispensed with, as shown in Figs. 1 and 2, when the joints between the beams and knees are made rigid by forcing the board forward between the upper ends of the knees. I prefer, however, to include the braces, as they add much to the strength of the sleigh. N N are recesses formed in the board D, to provide room for the upper ends of the rear knees, B, when folded in the position shown in Fig. 2.

The board D is provided with dovetail strengthening-cleats O O, which prevent the board from being warped or sprung as it is forced between the upper ends of the knees.

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

1. The combination of beams C C, knees B B, and folding braces P, said braces being secured to said beams by clasps R and bolts S, and adapted to be folded in a horizontal position in line with the beams, as set forth.

2. The combination of beams C C, board H, provided with slots I I, knees B B, as secured to said beams by hinges E, board D, and bolts J J, adapted to be secured in said slots I I, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FERDINAND MEINECKE.

Witnesses:

JAS. B. ERWIN,  
WILLIAM SINNOTT.