

(No Model.)

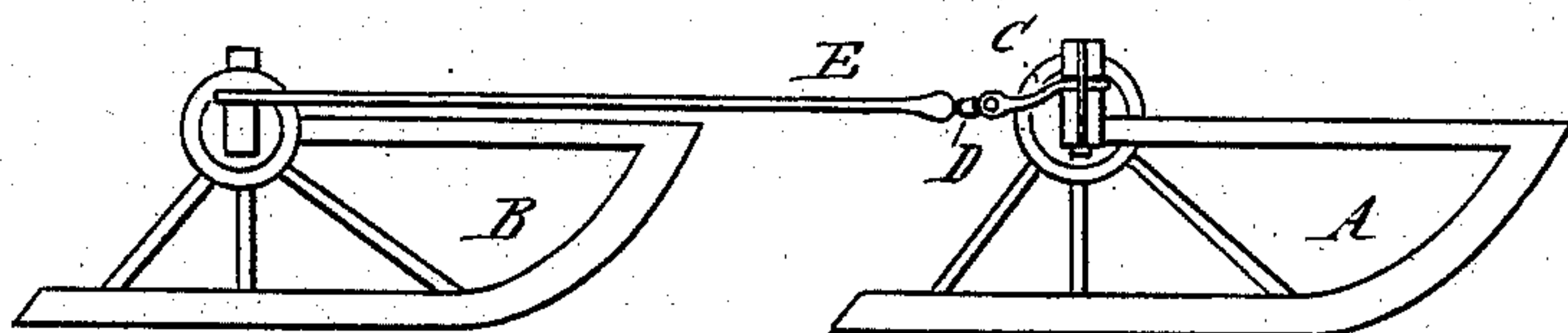
F. YAGER.

BOB SLEIGH.

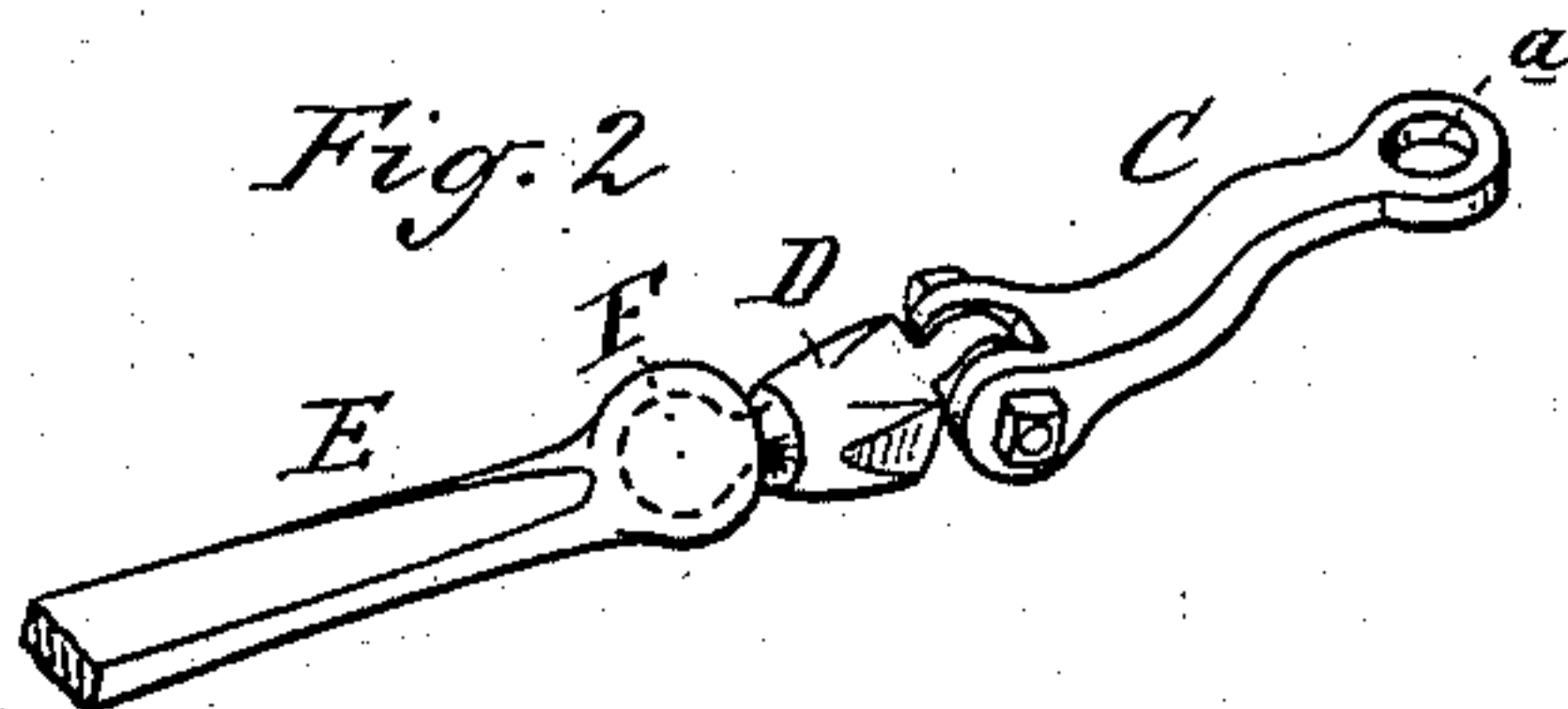
No. 254,856.

Patented Mar. 14, 1882.

*Fig. 1*



*Fig. 2*



*Attest:*  
*A. Barthel*  
*Charles F. Hunt*

*Inventor:*  
*Frank Yager*  
*per Thos S. Sprague*  
*Att'y*

# UNITED STATES PATENT OFFICE

FRANK YAGER, OF CLARKSTON, MICHIGAN.

## BOB-SLEIGH.

SPECIFICATION forming part of Letters Patent No. 254,856, dated March 14, 1882.

Application filed December 28, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK YAGER, of Clarkston, in the county of Oakland and State of Michigan, have invented new and useful Improvements in Bob-Sleighs; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

The nature of this invention relates to certain new and useful improvements in the construction of what are technically termed "bob-sleighs," by means of which all strain upon the reach or coupling between the two bobs occasioned by their running over uneven surfaces is avoided. As ordinarily constructed, should the forwards bobs run over a log, for instance, and one of the runners of the rear bob at the same time pass over a hummock or the roots of an old tree, the strain upon the reach or coupling would have a tendency to split and break it.

The object of my invention is to so construct the reach or coupling between the front and rear bobs that, no matter what the unevenness of the ground may be or the obstructions over which the sleigh is compelled to pass, there will be such a flexibility to the coupling that it will adjust itself automatically to all the positions, such as would effectually destroy or injure the couplings as now made.

The invention consists in the peculiar construction and combination of parts forming the reach or coupling of bob-sleighs.

Figure 1 is a vertical longitudinal central section. Fig. 2 is a detached view of the coupling.

In the accompanying drawings, which form a part of this specification, A represents the

front and B the rear bobs of a bob-sleigh, and are constructed in the usual manner.

The reach or coupling is made in three parts. The part C, forming the neck, is provided with a bolt-hole, *a*, and passes or lies between the bolsters and the beam of the forward bob, and is secured in the usual manner by a king-bolt. The rear end of the neck is pivotally connected to the part D, so that the front bob may pass over obstructions without straining the reach or coupling. This part D is secured by means of a universal joint, F, to the reach proper, E, the free end of which is secured to the rear bob in any convenient manner.

It will be seen that by this construction the reach cannot be strained in the use of the bobs under the disadvantageous circumstances I have hereinbefore described.

I am aware of the patent of D. Holtz, dated October 3, 1871, No. 119,611, and therefore I do not claim the construction shown in said patent.

What I claim is—

The neck C, provided at one end with a hole, *a*, adapted to lie loosely between the bolster and beam of the forward bob, and having a bifurcated rear end, in combination with the part D, provided at one end with a tongue adapted to be pivoted in the bifurcated end of the neck C, and at its other end with a ball or knob, and the reach E, connected to the rear bob and provided with a spherical recess to receive the ball end of the part D, substantially as shown and described, and for the purpose specified.

FRANK YAGER.

Witnesses:

H. S. SPRAGUE,  
CHARLES J. HUNT.