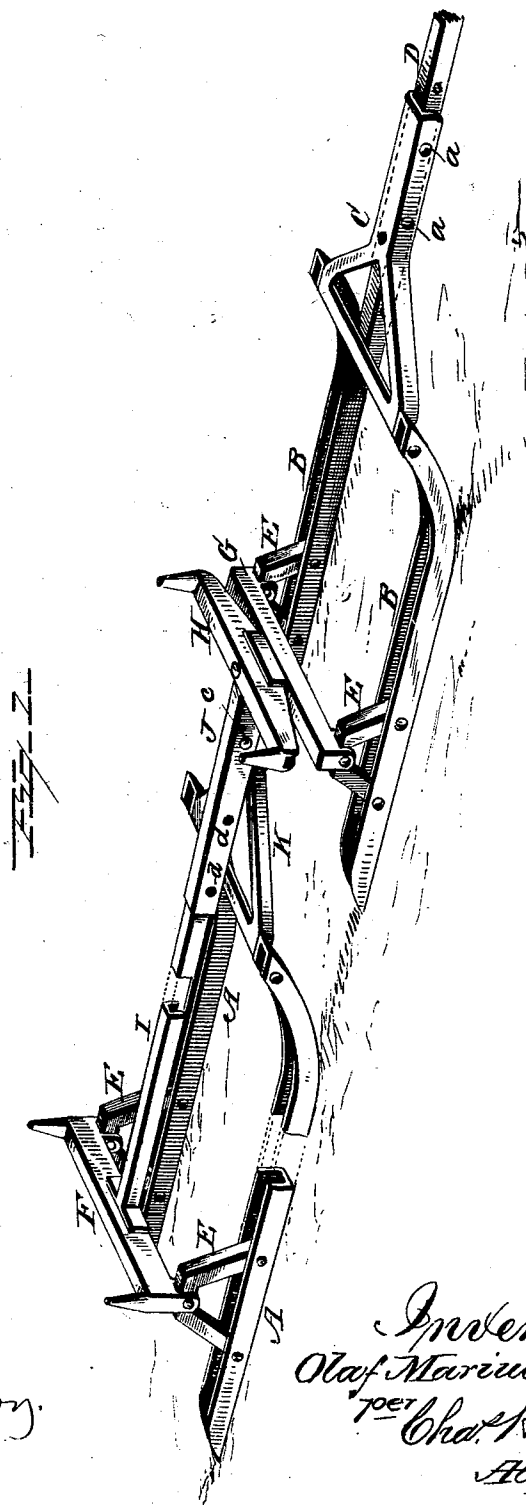
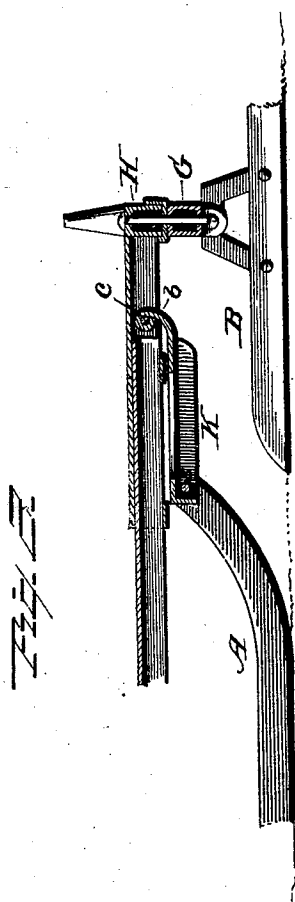


(No Model.)

O. M. GORDER.
BOB SLEIGH.

No. 542,252.

Patented July 9, 1895.



Witnesses
C. Williamson.
W. M. Newbridge.

Inventor
Olaf Marius Gorder.
per Cha. H. Fowler.
Attorney.

UNITED STATES PATENT OFFICE.

OLAF MARIUS GORDER, OF CANBY, MINNESOTA.

BOB-SLEIGH.

SPECIFICATION forming part of Letters Patent No. 542,252, dated July 9, 1895.

Application filed April 16, 1894. Serial No. 507,658. (No model.)

To all whom it may concern:

Be it known that I, OLAF MARIUS GORDER, a citizen of the United States, residing at Canby, in the county of Yellow Medicine and State of Minnesota, have invented certain new and useful Improvements in Bob-Sleighs; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has relation to the construction of bob-sleighs, whereby the durability, strength, and efficiency of the sleigh will be materially enhanced, and its simplicity of construction enabling the sleigh to be manufactured at a comparatively-reduced cost. These several objects I attain by the construction substantially as shown in the drawings, and hereinafter described and claimed.

Figure 1 of the drawings represents a perspective view of my improved bob-sleigh; Fig. 2, a detail sectional view showing the manner of coupling the two short sleighs together.

In the accompanying drawings, A B represent the runners of the two short sleighs, respectively, which are constructed of grooved or double-angle steel, whereby the desired strength is obtained, with the addition of lightness. The forward ends of the runners B have pivoted to them a draft-bar or bracket C, which is grooved similar to the runners above described, in order to form a seat for a suitable tongue or pole D, to which it is connected. The tongue or pole D is adjustably connected to the draft-bar or bracket C by means of pins *a*, which extend through holes in said grooved portion of the draft-bar or bracket and through holes in the tongue or pole.

I have shown pins and a plurality of holes in the tongue or pole as means for rendering the latter extensible to adapt it to the size of team; but any suitable and well-known means may be employed to shorten or lengthen the tongue or pole.

The knees E are seated within the grooves of the runners and firmly secured thereto in any well-known manner, and to these knees

are connected the rear bolster F and sand-bar G, as shown. The front bolster H is pivoted in the ordinary manner to the sand-bar G, and said bar and bolsters may be of any of the usual forms and constructed in any suitable manner.

The reach is constructed of two sections I J, whereby it may be rendered extensible, the section I at its inner end fitting within the groove of the section J, whereby each will form a guide for the other, and the grooves in the sections forming a perfect and strong coupling. The bracket K, which is connected to the rear runners A, is formed with a loop extension *b*, which is located within the groove of the reach-section J and is connected to the reach-section by means of a coupling-pin *c*, which passes through one of a series of holes upon the sides of the section and through the loop, as shown in Fig. 2. This will enable the reach to be lengthened or shortened by engaging the coupling-pin in any one of the holes *d* and with the loop extension *c*, thus increasing or diminishing the distance between the two bolsters, as circumstances require.

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

In a bob sleigh, the two sets of runners A, B, the two bolsters F, H, and the reach composed of the two sections I, J; one of which is solid and the other U-shaped, so as to receive the front end of the solid section, and provided with a series of perforations, combined with the bracket K, secured to the rear runners, the hooked plate *b*, secured to the bracket, and having its front end project into the U-shaped section J; and the pin *c* which passes through the perforated section J, and through the front end of the plate *b*, substantially as shown.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

OLAF MARIUS GORDER.

Witnesses:

MARTIN S. NELSON,
H. E. SWENSON.