

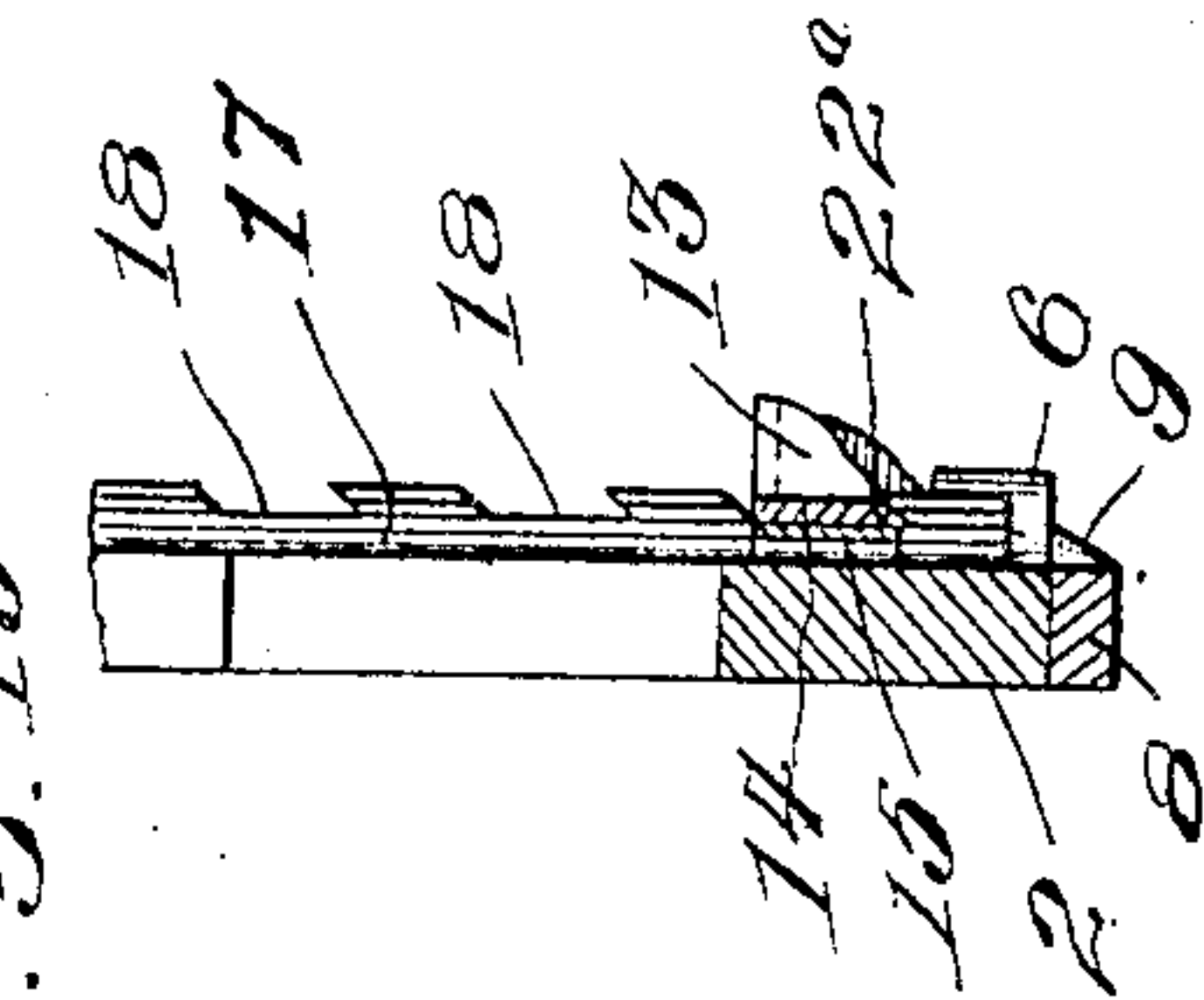
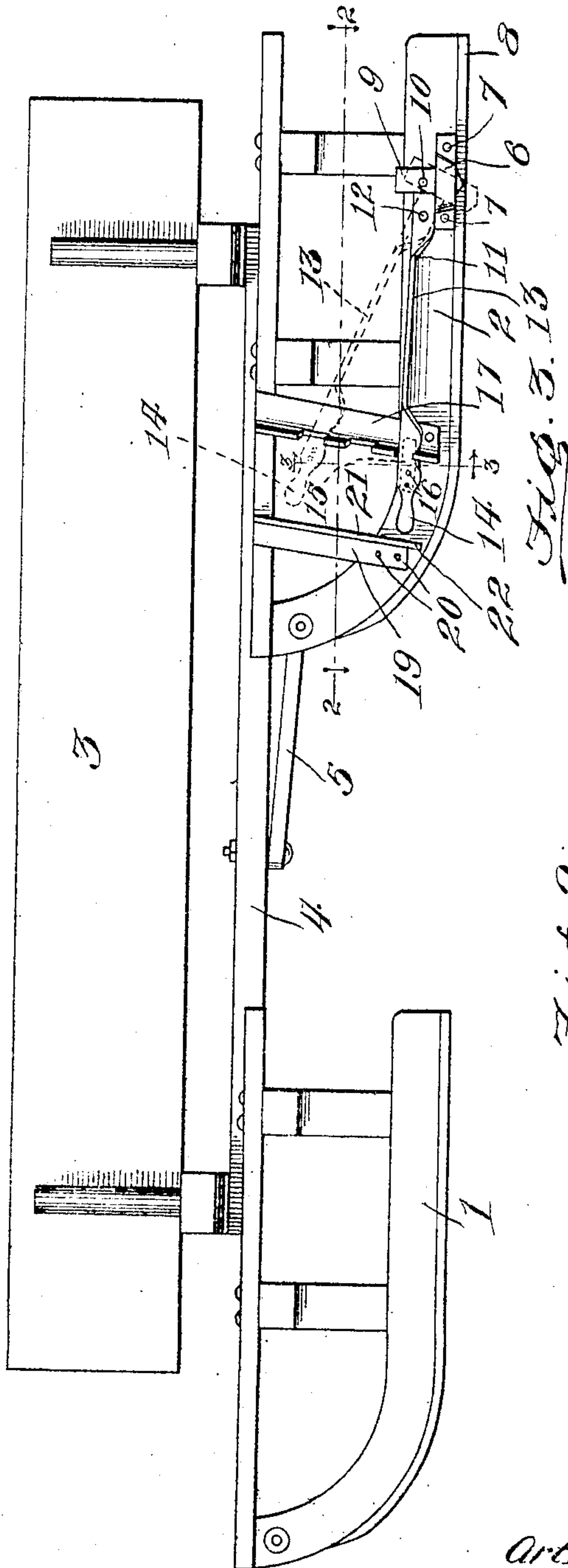
No. 882,356.

PATENTED MAR. 17, 1908.

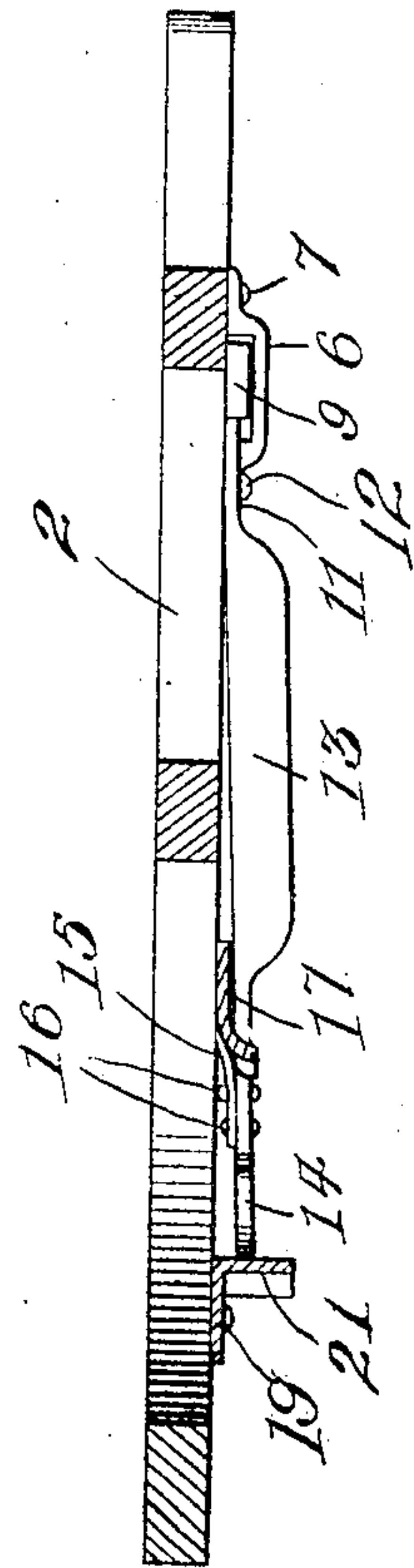
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SLEIGH.

APPLICATION FILED OCT. 29, 1907.

*Fig. 1.*



*Fig. 2.*



Witnesses

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# UNITED STATES PATENT OFFICE.

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## SLEIGH.

No. 882,356.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed October 29, 1907. Serial No. 399,625.

*To all whom it may concern:*

Be it known that I, ARTHUR E. TAYLOR, a citizen of the United States of America, residing at Necedah, in the county of Juneau and State of Wisconsin, have invented new and useful Improvements in Sleighs, of which the following is a specification.

This invention relates to bob sleighs, and one of the principal objects of the same is to provide simple and efficient means for preventing the rear sleigh of the pair of bob sleighs from sliding laterally from side to side on slippery roads, and especially upon roads that are curved transversely from center to opposite sides.

Another object of the invention is to provide an attachment for the side of one of the runners of a bob sleigh, said attachment comprising a vertically disposed blade designed to cut a groove in the ice or snow on the road and to thus hold the sleigh in direct line with the draft, said blade being attached to a lever having a resilient portion which will permit the blade to rise when passing over railway rails.

Still another object of the invention is to provide a guard for preventing the snow from coming in contact with the handle of the lever and clogging the operative parts.

These and other objects may be attained by means of the construction illustrated in the accompanying drawing, in which:—

Figure 1 is a side elevation of a bob sleigh having my attachment secured to one of the runners of the rear sleigh, and shown in operative position in dotted lines. Fig. 2 is a longitudinal section on line 2—2 of Fig. 1, looking in the direction indicated by the arrows. Fig. 3 is a detail section on the line 3—3, Fig. 1, looking in the direction indicated by the arrows.

Referring to the drawing for a more specific description of my invention, the numeral 1 designates the front sleigh of a pair of bob sleighs, and 2 is the rear sleigh; 3 is the box; 4 is the reach, and 5 are the draft bars connecting the rear sleigh to the reach.

The parts thus far described may be of the usual or any suitable construction, and my device may be applied to any type of bob sleigh or sled.

My attachment comprises a keeper 6

bolted at 7 to the side of one of the runners of the rear sled immediately above the shoe 8. A blade 9 of any suitable construction formed of tempered steel is secured, as at 10, to a lever 11, said lever being made of a single piece of sheet metal and pivoted at 12 to the side of the runner. A portion 13 of the lever 11 is bent at right angles to the two end portions, as clearly shown in the drawings. In passing over railway rails the blade 9 is permitted to move upward owing to the fact that the flat portion of the lever 11 is sufficiently resilient for this purpose. The handle end 14 of the lever is provided with a spring 15 connected to the rear side of said lever by means of suitable rivets 16, said spring 15 bearing upon the inner side of a rack bar 17, said rack bar being connected to the runner 2 and extending toward the seat. This rack bar has a series of notches 18 therein to engage said lever. The lever has a knife edge or bevel 22<sup>a</sup> which engages an oppositely beveled portion of the rack bar, as shown in Fig. 3.

In front of handle 14 of the lever is an angular guard 19 connected by bolts 20 to the runner, said guard having an outwardly extending flange 21 provided with an extension 22 which terminates at a point substantially in line with the lower edge of the runner.

The operation of my invention may be briefly described as follows:—Whenever it is desired to throw the blade 9 downward to engage the ice or snow and prevent the rear sleigh from swinging from side to side of the road the lever is raised to the position shown in dotted lines in Fig. 1, said lever being held in the upper notch 18 of the rack bar by means of the spring 15. When it is desired to raise the blade 9 out of operative position the lever is moved to the full line position of Fig. 1. The guard 19 serves to prevent the snow from piling up in front and clogging the action of the lever. In passing over railway rails the blade 9 is permitted to move upwardly owing to the resilient portion of the lever 11.

My invention is of comparatively simple construction, cannot readily get out of order, is convenient and efficient in use and can be readily attached to any form of bob sleigh or sled.



Having thus described the invention, what is claimed as new, is:—

An attachment for sleighs comprising a keeper secured to the side of one of the runners of the sleigh, a blade mounted to move in said keeper and secured to the end of a lever, said lever being pivoted to the runner, a rack bar, a spring secured to said lever and bearing upon the rear side of said rack bar to

prevent detachment of the lever therefrom, 10 and a guard disposed in front of the lever handle.

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

ARTHUR E. TAYLOR.

Witnesses:

LEO J. SANFORD,  
JAMES WAKE.