

G. A. METZIG.

BOB SLED.

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1,056,040.

Patented Mar. 18, 1913.

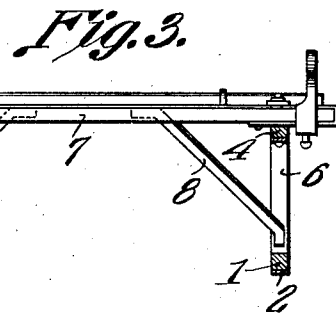
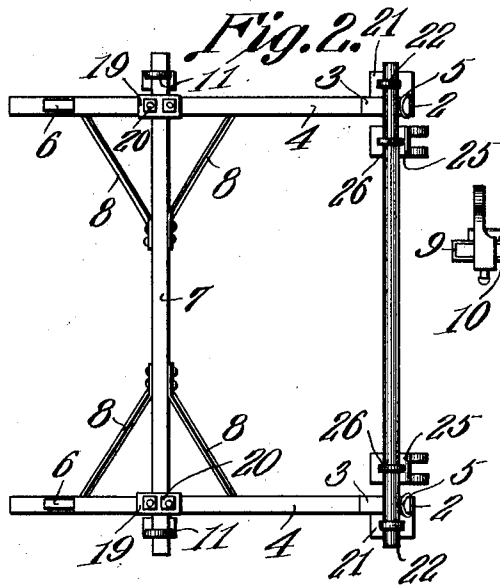
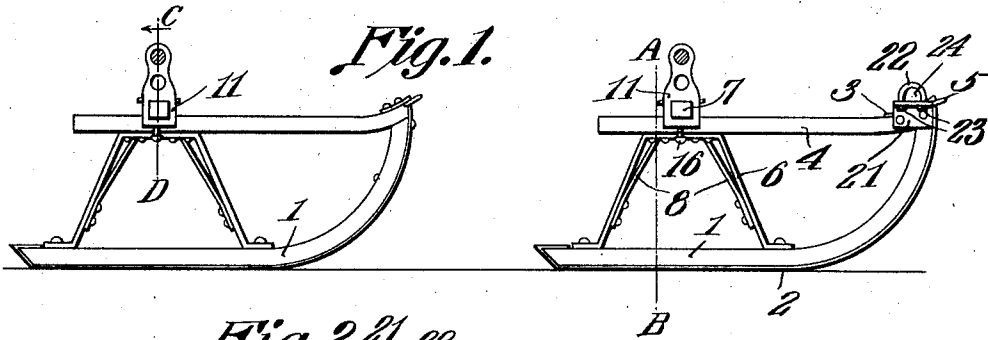


Fig. 4.

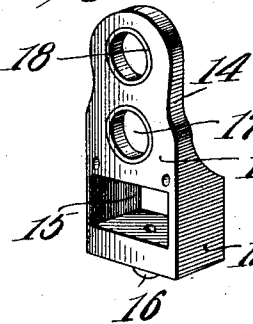


Fig. 6.

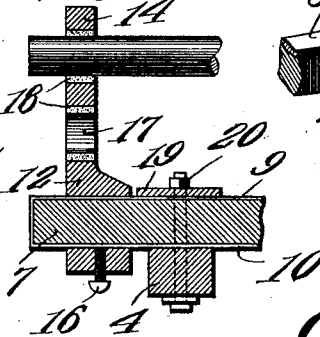
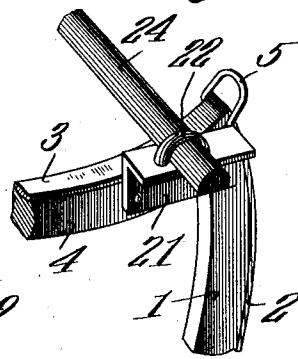


Fig. 5.



Witnesses

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BOB-SLED.

1,056,040.

Specification of Letters Patent.

Patented Mar. 18, 1913.

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To all whom it may concern:

Be it known that I, GUSTAVE A. METZIG, a citizen of the United States, residing at Berlin, in the county of Green Lake and State of Wisconsin, have invented a new and useful Bob-Sled, of which the following is a specification.

It is one object of this invention to provide an attachment for bob sleds, whereby a vehicle body may be assembled with the sleds.

Another object of the invention is to provide a bob sled adapted to receive means whereby the bob sled may be assembled with the body of a vehicle.

A further object of the invention is to provide novel means whereby the thill bar may be adjustably connected with a bob sled.

A further object of the invention is to improve generally, the construction of bob sleds.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings,—Figure 1 shows the invention in side elevation; Fig. 2 is a top plan of one of the bob sleds; Fig. 3 is a vertical transverse section on the line A—B of Fig. 1; Fig. 4 is a perspective of the device whereby a vehicle body may be assembled with the bob sleds; Fig. 5 is a detail perspective, fragmental in its nature, and showing the forward end of one of the bob sleds, the view illustrating the means whereby the thill bar is adjustably connected with the forward bob sled; and Fig. 6 is a section upon the line C—D.

The bob sleds are identical in construction, saving for one detail which will be referred to specifically hereinafter. A description of one of the bob sleds will, therefore, suffice for the description of the other.

The runners are denoted by the numeral 1, the runners being equipped with shoes 2, overlapped, as shown at 3, upon the top bars 4, rings 5 being mounted in the angles of the shoes, these rings being adapted to receive chains or the like, as is well understood, the chains being attached to the body

of the structure, to prevent the bob sled from having too extensive a lateral movement. The top bars 4 are connected with the runners 1 by means of knees 6, and benches 7, resting upon the top bars 4, are united with the knees 6 by means of downwardly extended, diverging braces 8.

A plate 9 is extended along the upper surface of each bench 7, the ends of the plate being carried around the ends of the benches, and overlapped upon the under faces of the benches, adjacent the ends thereof, as shown at 10. Superposed upon the benches 7, are yokes 19, bolts or other securing devices, indicated at 20, being downwardly extended through the yokes 19, through the top bars 4, and through the intermediate portions of the knees 6, in order to bind the yokes 19 upon the benches 7, and to hold the benches, in their turn, upon the top bars 4.

In order to connect the body of a vehicle with the bob sleds, a plurality of standards 11, adapted to receive the spindles of the vehicle axles, are provided. One of these standards is shown in detail in Fig. 4, and it will there be seen that the structure embraces a relatively thick body 12, provided with a thinned, upstanding neck 14. In the body 12 there is a polygonal opening 15, adapted to receive the end of the bench 7. Mounted in the bottom of the standard, is a set screw 16. This set screw is adapted to bear against the end 10 of the plate 9. In the neck 14 there are superposed openings 17, adapted to receive the spindles of the vehicle axles, a bushing 18, of leather or the like, being adapted to be mounted in either of the openings 17, in order to prevent undue friction upon the axle spindles.

The invention further includes a means whereby the thill bar may be mounted for longitudinal adjustment upon the front bob sled. With this end in view, angle brackets 21 are provided, one flange of each bracket being secured in vertical relation to the top bar 4 and to the runner 1, the other flange of the angle bracket outstanding horizontally. It may be noted that by this construction, the angle brackets serve as a means for binding together the top bar 4 and the runner 1, at their point of union. U bolts 22 are extended through the horizontal flanges of the angle brackets 21, nuts 23 being mounted upon the extremities of the U bolts, so that the U bolts may be drawn to-

ward the angle brackets, to hold against movement, the thill bar 24 which is inserted through the U bolts. Obviously, by loosening the nuts 23, the thill bar 24 may be shifted longitudinally, and by this construction, the device may be employed to receive a pole, or to receive a pair of thills, the thills, when used, of course being shifted to one side, to prevent the single draft animal from treading the ridge. Thill couplings 25 are held adjustably upon the thill bar 24 by means of a U bolt and nut connection 26, similar to the bolt and nut connection 22—23.

When it is desired to assemble a vehicle body with the bob sleds, the standards 11 may readily be secured upon the spindles of the vehicle axle, and upon the ends of the benches 7, the operation of mounting and removing the standards, involving merely the adjustment of the set screw 16.

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

In a device of the class described, a bob sled having a transverse bench; a plate secured to the top of the bench and having its ends extended beneath the ends of the bench; a standard having an opening to receive the axle of a vehicle body, and an opening to receive the bench; and a securing device adjustably mounted in the bottom of the standard and adapted to engage the end of the plate.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

GUSTAVE A. METZIG.

Witnesses:

HENRY MORMAN,
ADAM CZINSKY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."