April 13, 1926. 1,580,224

A. W. TATRO

TOBOGGAN STEERING DEVICE

Original Filed May 29, 1923

Fig. 1.

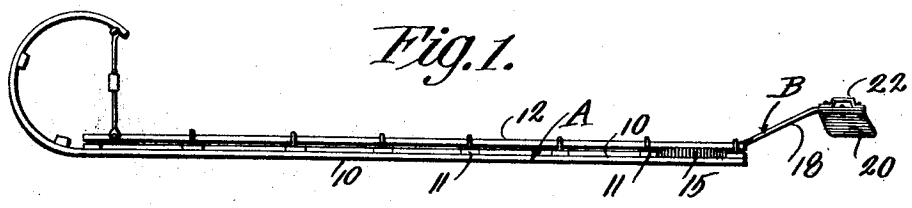


Fig. 2.

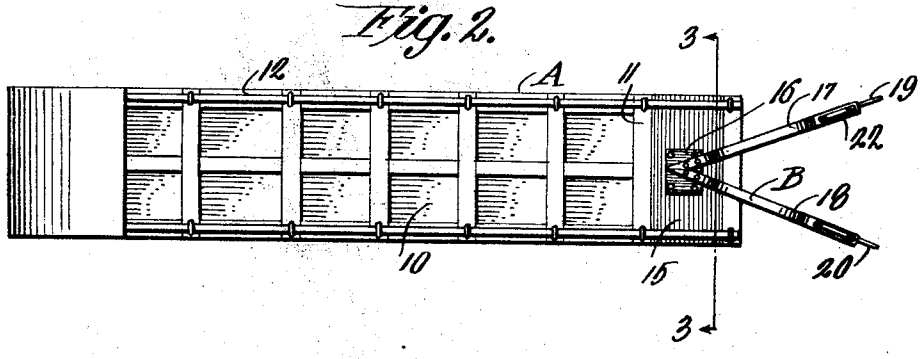


Fig. 3.



Fig. 4.

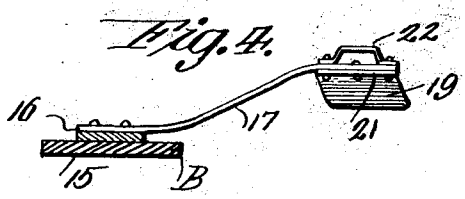
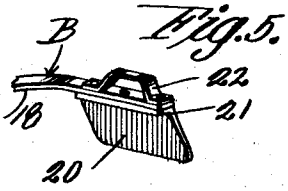


Fig. 5.



WITNESSES

Geo. M. Spring

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Patented Apr. 13, 1926. 1,580,224

UNITED STATES PATENT OFFICE.

ARTHUR W. TATRO, OF ADAMS, MASSACHUSETTS.

TOBOGGAN-STEERING DEVICE.

Application filed May 29, 1923, Serial No. 642,287. Renewed November 3, 1924.

To all whom it may concern:

Be it known that I, ARTHUR WM. TATRO, a citizen of the United States, residing at Adams, in the county of Berkshire and State of Massachusetts, have invented certain new and useful Improvements in a Toboggan-Steering Device, of which the following is a specification.

This invention relates to attachments for toboggans and the primary object of the invention is to provide a novel steering attachment which can be readily connected to the ordinary toboggan, without change in the construction thereof.

Another prime object of the invention is the provision of a novel steering attachment for toboggans embodying a pair of independent steering blades arranged at an angle to each other and connected with the toboggan by resilient supporting members, the blades being adapted to be forced into engagement with the snow, over which the toboggan may be traveling by flexing the said resilient supporting members.

A further prime object of the invention is the provision of an improved steering device of toboggan embodying a supporting plate for carrying the novel steering members which can be readily and quickly secured to the toboggan by the ordinary layman.

A still further object of the invention is to provide a steering device for the toboggan of the above character, which will be durable and efficient in use, one that will be simple and easy to manufacture and one which can be placed upon the market and incorporated with a toboggan at a small cost.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts as will be hereinafter more specifically described, claimed and illustrated in the accompanying drawings; in which drawings:

Figure 1 is a side elevation of a toboggan showing the improved steering attachment connected therewith.

Figure 2 is a plan view of a toboggan showing the improved steering attachment connected therewith.

Figure 3 is a transverse section taken on the line 3—3 of Figure 1 looking in the direction of the arrows.

Figure 4 is a detail longitudinal section through the steering attachment, and Figure 5 is a detail perspective view of one of the steering blades.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter A generally indicates a toboggan and B the improved steering attachment therefor.

The toboggan A is of the usual or any preferred character and has been shown only to illustrate the use of the improved invention and as illustrated, the toboggan A embodies the bed 10 reinforced at predetermined points by transversely extending cleats 11, which support the longitudinally extending hand rails 12.

The improved steering attachment B comprises a supporting and attaching base plate 15 of a substantial rectangular configuration and of such a size as to readily fit between the two rearmost cleats 11 and under the hand rails 12. The supporting base plate 15 can be readily slipped in between the body or bed 10 and the rails 12 between the cleats 11 without the use of fastening elements.

Secured to the central portion of the plate 15 is an attaching plate 16 which carries rearwardly extending diverging resilient arms 17 and 18 which are in the nature of leaf springs. When the arms 17 and 18 are viewed in plan they form a substantially V-shaped construction. The outer or rear ends of the arms 17 and 18 have riveted or otherwise secured thereto flat thin steering blades or rudders 19 and 20 respectively. As shown, the upper ends of these blades or rudders 19 and 20 are bent at right angles to provide attaching flanges 21, which forms the means for permitting the convenient securing of the rudders or blades to the arms. Suitable handles 22 are secured to the arms 17 and 18 directly above the steering blades or rudders 19 and 20.

In use of the improved steering attachment, a person at the rear of the toboggan extends his arms rearwardly and grasps the handles 22.

Now by forcing down either one of the arms 17 or 18, so as to force either the blades or rudders 19 or 20 into engagement with the snow or ice, the direction of the travel of the toboggan A can be readily controlled.

From the foregoing description, it can be seen that I have provided an improved steering device for toboggans, which can be read-

ily and quickly placed in position on the ordinary toboggan and readily manipulated by one of the passengers on the toboggan.

Changes in details may be made without departing from the spirit or the scope of this invention.

What I claim as new is:

1. A steering device for toboggans including a base plate adapted to be secured on the rear end of the toboggan, a pair of rearwardly diverging arms of resilient material having their forward ends secured to the base plate in adjacent relation, and steering blades secured to the rear ends of the arms so as to be normally yieldingly held in an elevated inoperative position by the latter.

2. A steering device for toboggans including a base plate adapted to be secured on the rear end of the toboggan, a pair of rearwardly diverging arms of resilient material having their forward ends secured to the base plate in adjacent relation, and steering blades secured to the rear ends of the arms so as to be normally yieldingly held in an elevated inoperative position by the latter, and handles secured to the rear ends of the arms above the steering blades.

3. The combination with a toboggan comprising a bed, spaced transversely extending cleats carried by the bed and longitudinally extending hand rails connected to the cleats, of a steering attachment for the toboggan including a base plate arranged between the rearmost pair of cleats and between the bed and hand rails, means securing said base plate in place, a pair of rearwardly diverging arms of resilient material fixed at their forward ends to the plate in adjacent relation, and steering blades fixed to the rear ends of the arms and normally held in an elevated inoperative position by the latter.

In testimony whereof I affix my signature.

ARTHUR W. TATRO.