Mar. 6, 1923. 1,447,522

H. W. SELLNER

TOBOGGAN SLIDE

Filed July 11, 1922

Fig. 1.

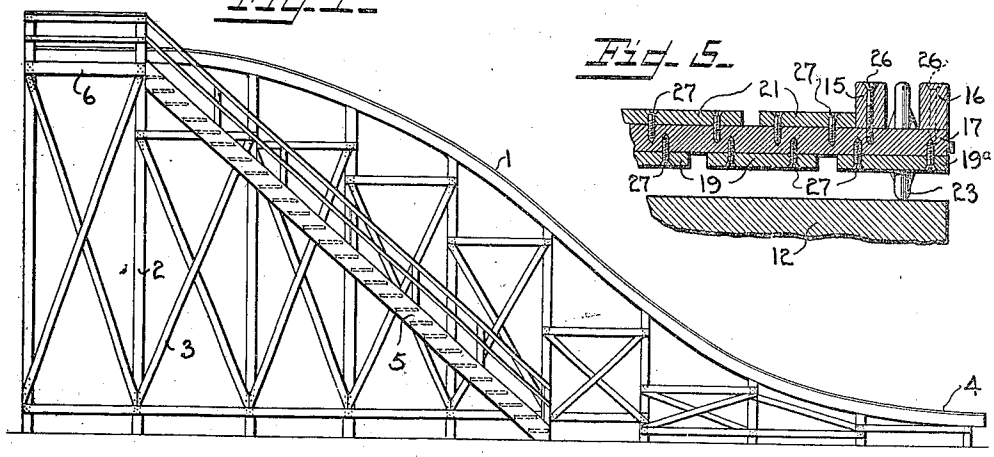


Fig. 5.

Fig. 2.

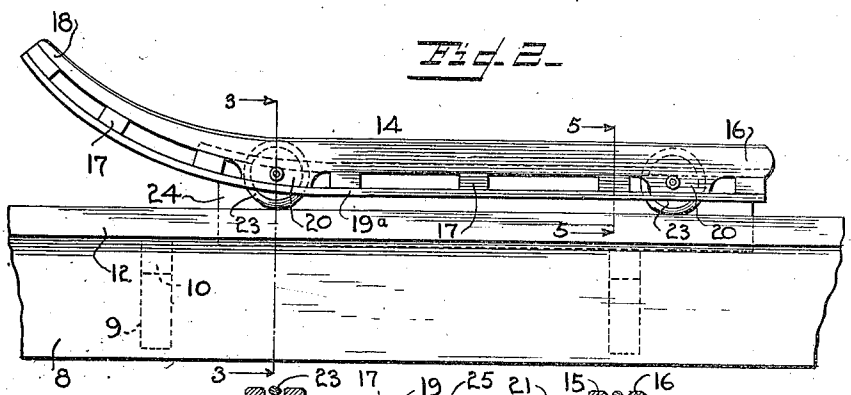


Fig. 3.

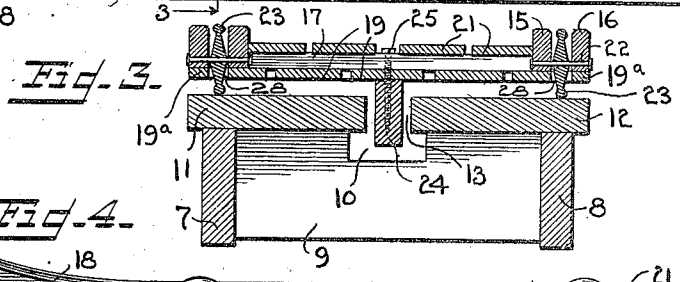
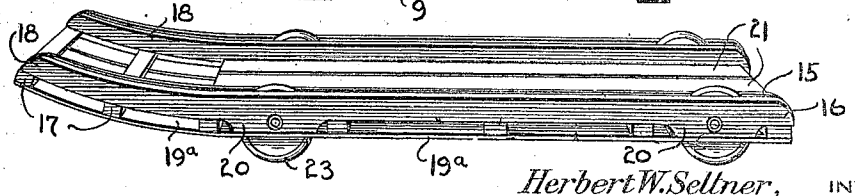


Fig. 4.



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Patented Mar. 6, 1923. 1,447,522

UNITED STATES PATENT OFFICE.

HERBERT W. SELLNER, OF FARIBAULT, MINNESOTA.

TOBOGGAN SLIDE.

Application filed July 11, 1922. Serial No. 574,162.

To all whom it may concern:

Be it known that I, HERBERT W. SELLNER, a citizen of the United States, residing at Faribault, in the county of Rice and State of Minnesota, have invented a new and useful Toboggan Slide, of which the following is a specification.

This invention relates to improvements in toboggan slides, and has for its object to provide a simple and strong construction in which provision is made for holding the toboggan or sled from lateral displacement; and also means are provided to serve as handholds for the occupant.

In carrying out these objects, the toboggan or sled is formed with a depending keel adapted to ride in a slot extending longitudinally of the inclined runway; and the sides of the toboggan or sled are provided with hand rails at each side to be grasped by the hands of the rider.

The invention will be best understood from a consideration of the following detailed description taken in connection with the accompanying drawing forming part of this specification, with the understanding, however, that the invention is not confined to any strict conformity with the showing in the drawing, but may be changed and modified so long as such changes and modifications mark no material departure from the salient features of the invention as expressed in the appended claims.

In the drawing:—

Fig. 1 is a side elevation of a toboggan slide.

Fig. 2 is a side elevation of a toboggan shown in operative relation with a portion of the inclined runway.

Fig. 3 is a transverse section taken along the line 3—3 of Fig. 2.

Fig. 4 is a view in perspective of the toboggan.

Fig. 5 is a transverse section of the toboggan taken along the line 5—5 of Fig. 2.

Referring to the drawing, 1 designates an inclined runway or toboggan slide which is supported by means of standards 2 and diagonally disposed brace bars 3. The lower forward end 4 of the runway is adapted to be positioned above the body of water, while the rear end of the supporting structure is secured in any approved manner to the shore. The stairs 5 leading from the ground to the platform 6 provide a means for reaching the most elevated portion of the runway and from which the start is made over the toboggan slide.

The runway or slide 1 comprises spaced longitudinal sills 7 and 8, and connected at intervals by means of transverse sills 9. The upper edge of the sills 9 intermediate their ends are cut away to form a slot 10. Rigidly secured to the side sills 7 and 8, and to the transverse sills 9 are tracks 11 and 12, which are spaced apart to form a slot 13 which opens into the slot 10 of the sills 9.

Adapted to ride on the tracks 11 and 12 of the runway 1, is a toboggan or sled 14. It comprises two pairs of longitudinal side members or rails 15 and 16, with the pairs of rails spaced from each other and secured to the upper sides of transverse bars 17, adjacent the ends of said bars, by means of screws or bolts 26, as shown in Fig. 5. The forward ends of the spaced side rails 15 and 16 are curved upwardly as shown at 18.

To the underside of the transverse bars 17 are secured, in any approved manner, as by screws or bolts 27, longitudinal slats 19. The forward ends of these slats are curved upwardly to conform to the curvature of the side rails 15 and 16. The outer slats 19^a are likewise secured to the extensions 20 which depend from the underside of the rails 15 and 16, so that spaces are provided between the underside of said rails and the outer longitudinal slats 19^a, to provide hand grips on the side rails 16. Secured by means of screws or bolts 27 to the upper faces of certain of the transverse bars 17 are slats 21, which fall short of the forward end of the side rails 15 and 16, and form a deck or seat for a person adapted to ride on the toboggan.

Mounted on the axles 22 between pairs of the spaced rails 15 and 16 are wheels 23. Four of these axles are secured in the separate pairs of spaced rails, two at the forward end in horizontal alinement, and two at the rear end of the sliding frame 14, likewise in horizontal alinement with each other. The wheels 23 are adapted to engage the tracks 11 and 12 and space the toboggan from said tracks, with said wheels projecting through slots 28 in the slats 19^a.

To the underside of the central slat 19 and to the cross bars 17 is secured a keel 24 by means of screws or bolts 25 passing through the cross bars, the central slat 19 and into said keel. The keel 24 depends

sufficiently below the sled to ride within the lot 13 formed by the spacing of the inner longitudinal edges of the tracks 11 and 12, and likewise passing through the slot 10 of the transverse sills 9 of the runway. The spacing of the inner longitudinal edges of the tracks 11 and 12 is such as to provide for expansion of the tracks 11 and 12 or the keel 24.

The toboggan or sled 14 is carried to the platform 6 to be placed with the forward upturned end of the toboggan towards the runway 1. The keel 24 is positioned in the slots 10 and 13, when the toboggan is ready for its downward descent over the runway 1 to be projected from the forward end 4 of the runway into the water, which is located beneath and beyond the forward end 4 of the runway. It will be seen that the keel 24 will prevent lateral displacement of the toboggan 14 and aid in maintaining the wheels 24 on the respective tracks 11 and 12.

The side rails 16, in connection with the spaces between the bars 17, provide hand grips for the person to hold to while descending on the toboggan or sled.

What is claimed is:—

1. In a toboggan slide, the combination with an inclined runway provided with a slot, a toboggan or sled provided with spaced wheels adapted to ride on the runway, and a longitudinal keel provided on the under side of the toboggan or sled between the wheels and depending into the slot, whereby lateral displacement of the toboggan or sled is prevented.

2. A toboggan or sled comprising pairs of spaced side rails, spaced cross bars secured to the underside of the side rails, longitudinal slats secured to the upper side of the cross bars and forming the deck of the frame, other longitudinal slats secured to the underside of the cross bars, axles mounted in said side rails, wheels on the axles located between the spaced side rails, and a keel secured centrally and longitudinally to the underside of the sled and depending below the wheels.

3. A toboggan or sled comprising pairs of spaced side rails, spaced cross bars secured to the underside of the side rails, slats running longitudinally and secured to the upper faces of the cross bars, said slats falling short of the full length of the toboggan and forming the deck thereof which is located below the plane of the upper longitudinal edges of the side rails, other slats extending the full length of the toboggan and secured to the underside of the cross bars, spaced extensions depending from the rails and secured to the bottom slats and spacing the lower longitudinal edges of the side rails from said slats, those portions of the outer side rails spaced from the adjacent bottom slats forming hand grips, axles mounted in said extensions, wheels on the axles located between the spaced side rails, and a keel secured centrally and longitudinally to the underside of the sled and depending below the wheels.

4. In combination with a runway provided with spaced tracks, the space between the tracks defininig a slot which extends longitudinally of the runway, a toboggan or sled provided with wheels to run on the tracks, and a keel rigidly secured to the toboggan or sled longitudinally thereof and between the wheels and depending below the latter so as to run in the slot of the runway.

In testimony that I claim the foregoing as my own I have hereto affixed my signature.

HERBERT W. SELLNER.