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G. D. DEES

2,735,115

TOBOGGAN

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Fig. 1

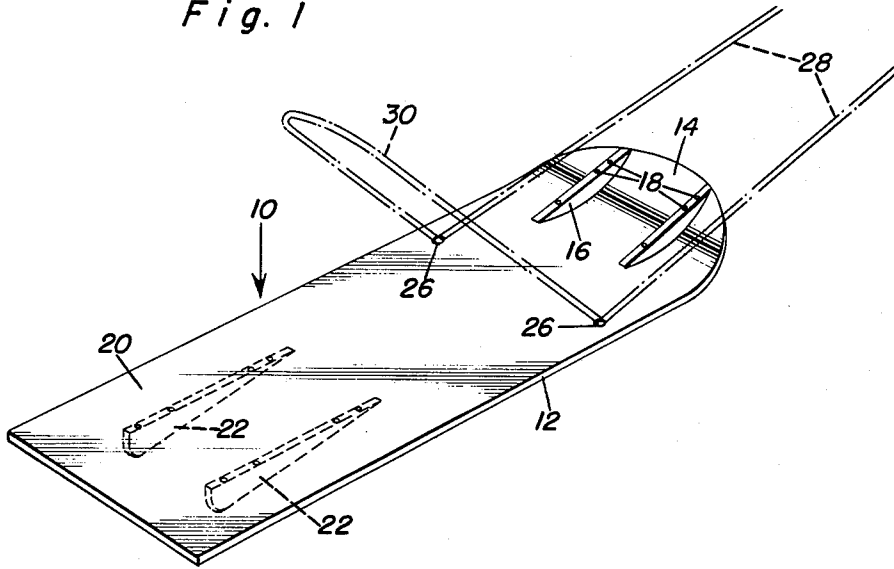


Fig. 2

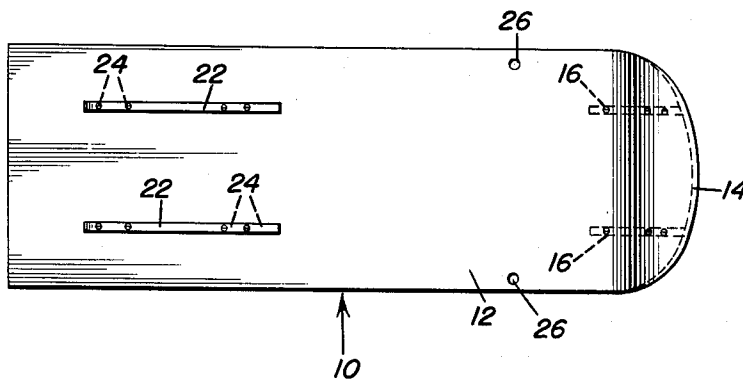


Fig. 3

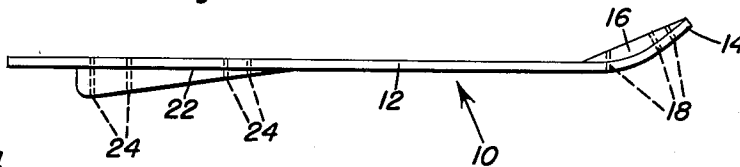
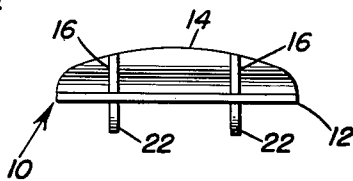


Fig. 4



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TOBOGGAN

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1 Claim. (Cl. 9—21)

This invention relates in general to toboggans, and more particularly to an improved toboggan intended for use in water.

At the present time, the toboggans in use have been constructed along the lines of toboggans utilized in connection with snow or other slippery surfaces and there has been provided no means for stabilizing such water toboggans so as to prevent the same from being off their courses. While such an action may add to the amusement of a rider in the straightway, the veering of a toboggan in a turn often times results in the overturning of the toboggan which is highly undesirable at high speeds. Accordingly, it is the primary object of this invention to provide an improved toboggan intended primarily for use in the water which includes a pair of spaced parallel stabilizing fins on the underside thereof adjacent its after end whereby a toboggan may be stabilized and retained on its desired course.

Another object of this invention is to provide an improved water toboggan which is of extremely simple construction, light in weight, and which is highly stable so that the same may be utilized and controlled with a minimum of effort upon the part of a rider.

A further object of this invention is to provide an improved water toboggan having stabilizing fins on the underside thereof for stabilizing the toboggan, said toboggan also having struts reinforcing and upwardly curved forward end, said struts being in longitudinal alignment with said fins whereby twisting action imparted to the stabilizing fins will be imparted directly to the struts to minimize such twisting action.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming parts throughout, and in which:

Figure 1 is a perspective view of the water toboggan, which is the subject of this invention, and shows the general outline of the same, a tow rope and a stand rope being shown in dotted lines;

Figure 2 is a bottom plan view of the water toboggan of Figure 1 and shows the positions of the stabilizing fins secured to the underside thereof;

Figure 3 is a side elevational view of the toboggan and clearly illustrates the configurations of the stabilizing fins and the struts which reinforce a curved forward end of the toboggan; and,

Figure 4 is a stern view of the toboggan and illustrates the longitudinal alignment of the stabilizing fins and the struts.

Referring now to the drawings in detail, it will be seen that there is illustrated the toboggan or surf board which is the subject of this invention, the toboggan being referred to in general by the reference numeral 10. The toboggan 10 includes an elongated body member or board 12 which is formed of a flat sheet of material, such as plywood, and which has an arcuate, upwardly curved for-

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ward end or bow 14. The arcuate forward end or bow 14 is reinforced by a pair of spaced, parallel substantially segmental braces or struts 16 which are secured to the upper surface of the body member 12 by suitable fasteners 18.

The body member 12 includes a rider supporting area 20 adjacent the stern thereof on which a rider may stand or rest in a seated position. Disposed immediately below the rider supporting area 20 and secured to the underside of the body member 12 in spaced, parallel relation is a pair of elongated stabilizing fins 22. The stabilizing fins 22 are triangular in elevation and increase in depth toward the after end of the body member 12 from which they are forwardly spaced. The stabilizing fins 22 are secured to the underside of the body member 12 by longitudinally spaced fasteners 24.

Disposed adjacent the arcuate forward end 14 of the body member 12 and extending therethrough is a pair of transversely spaced holes 26. The holes 26 have passed therethrough and secured to the body member 12 a tow rope 28 and a stand rope 30. It is intended that the tow rope 28 be secured to a suitable water vehicle, such as a boat, and it is intended that the rider of the toboggan 10 grasp the stand rope 30 to retain him or her on the toboggan.

When the toboggan 10 is towed behind a suitable water vehicle at a high rate of speed, the stabilizing fins 22 will result in the toboggan 10 following a straight course behind the boat.

When it is desired to turn the toboggan 10 relative to its normally straight course, the weight of the rider is shifted to the desired side with the result that that side of the toboggan is slightly submerged and the opposite side moves out of the water thereby causing a drag on one side of the stern portion of the toboggan and a resulting turning action. Inasmuch as the stabilizing fins 22 remain slightly within the water at all times, the fins also facilitate control of the toboggan 10 during a turn and greatly reduce the side-slipping of the toboggan over the water in the course of a turn.

Referring now to Figure 4 in particular, it will be seen that the stabilizing fins 22 are in longitudinal alignment with the struts 16. Inasmuch as a relatively great twisting action is imposed upon the stabilizing fins 22 during the turning of the toboggan 10, it is desirable that these fins be disposed in longitudinal alignment with the struts 16 to greatly reduce the twisting action of the body member 12.

In view of the foregoing, it will be seen that there has been devised an improved toboggan intended primarily for use in water which is relatively light in weight and at the same time of relatively great strength and which is highly maneuverable. It will be understood that the stabilizing fins 22, in addition to stabilizing the course of the toboggan 10, functions as reinforcing means for the stern portion of the toboggan on which a rider stands or sits.

From the foregoing, the construction and operation of the device will be readily understood and further explanation is believed to be unnecessary. However, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the appended claim.

What is claimed as new is as follows:

A surf board of the character described including: a flat board of a substantial width comprising an upwardly curved bow, the aft portion of said board providing a rider supporting area, a stand rope having its ends anchored to the longitudinal marginal portions of the board intermediate said rider supporting area and the bow, a pair

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of spaced, parallel, substantially segmental braces secured longitudinally in the bow on the upper side of the board, and a pair of spaced, parallel, substantially triangular fins mounted on the board beneath the rider supporting area for reinforcing same and stabilizing the board, said fins being in longitudinal alignment with the braces and co-operable therewith for resisting twisting action of the board.

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