H. CUCULLU.

WATER TOBOGGAN.

APPLICATION FILED AUG. 12, 1921.

1,399,469.

Patented Dec. 6, 1921.

2 SHEETS—SHEET 1.

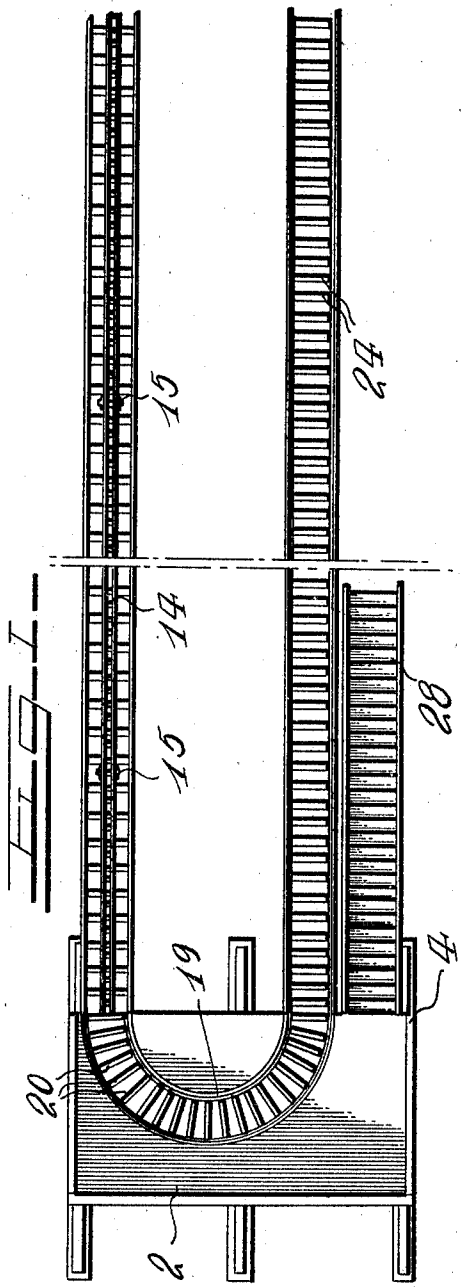

FIG. 1.

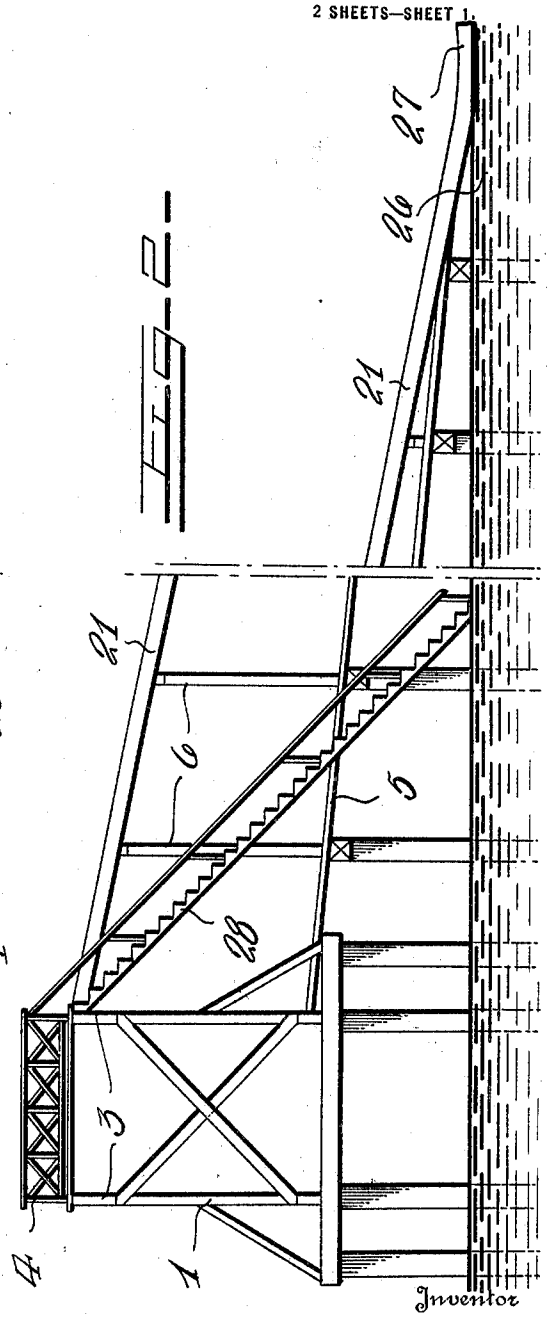

FIG. 2.

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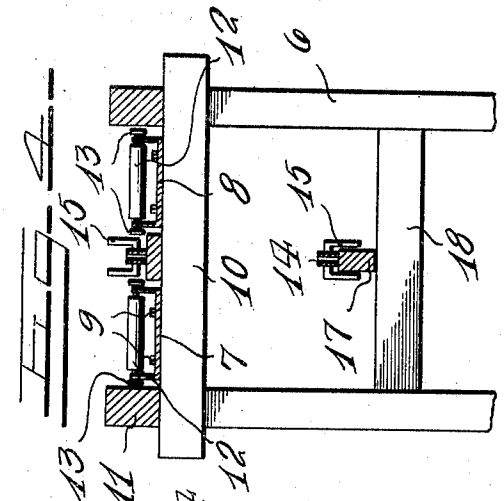

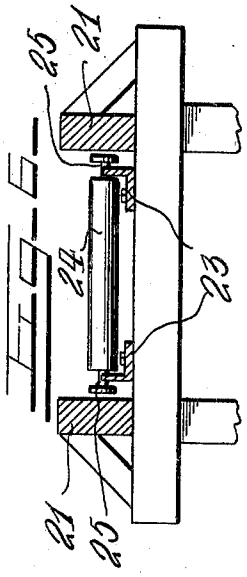

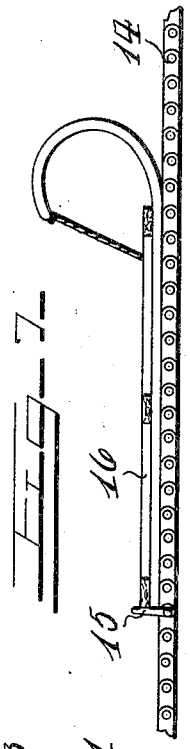

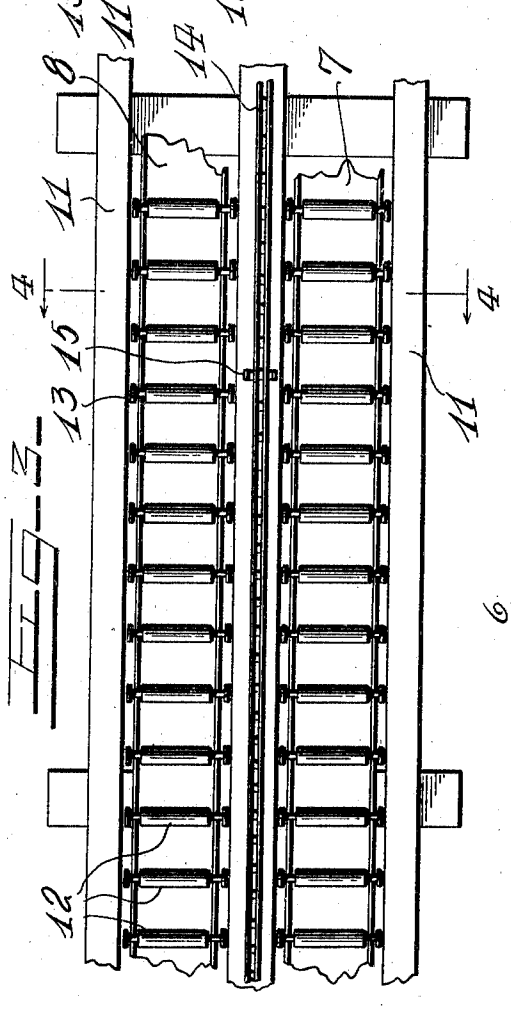

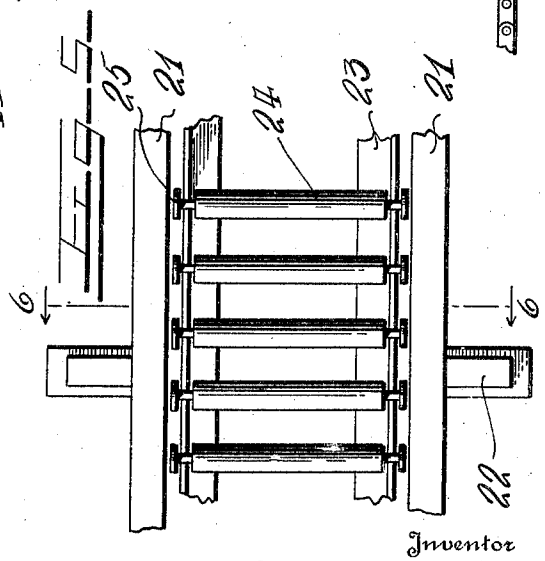

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UNITED STATES PATENT OFFICE.

HENRY CUCULLU, OF NEW ORLEANS, LOUISIANA.

WATER-TOBOGGAN.

1,399,469. Specification of Letters Patent. Patented Dec. 6, 1921.

Application filed August 12, 1921. Serial No. 491,804.

To all whom it may concern:

Be it known that I, HENRY CUCULLU, a citizen of the United States of America, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented certain new and useful Improvements in Water-Toboggans; and I do hereby declare that the following is a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in aquatic amusement devices, having for its object to provide a water toboggan for use by bathers whereby the toboggans or sleds employed in connection therewith will be caused to descend the gravity inclined chute thereof with great speed and thrill to the rider, and when being discharged onto the body of water at the bottom of the same will be caused to ricochet over its surface while momentum of the toboggan lasts, thus adding to the enjoyment of the device.

Other objects will be in part obvious and in part pointed out hereinafter.

In order that the invention and its mode of operation may be readily understood by persons skilled in the art, I have in the accompanying illustrative drawings and in the detailed following description based thereon set out one embodiment of the same.

In these drawings:

Figure 1 is a top plan view of the improved water toboggan having a portion thereof broken away;

Fig. 2 is a side elevation of the same with a portion broken away;

Fig. 3 is a fragmentary top plan of the return way or "haul-up";

Fig. 4 is a fragmentary section taken on the line 4—4 of Fig. 3;

Fig. 5 is a fragmentary detail in plan of the chute or discharge way;

Fig. 6 is a vertical transverse section taken on the line 6—6 of Fig. 5; and,

Fig. 7 is a detail in elevation of one of the toboggans employed together with a fragment of the "haul-up" chain or elevator.

Having more particular reference to the drawings in connection with which like characters of reference will designate corresponding parts throughout, my improved aquatic amusement device comprises a supporting structure indicated in its entirety by the numeral 1, consisting of vertically disposed piles upon certain of which a platform 2 is supported by means of trussed supports 3 and having a suitable form of guard rail 4 or similar device arranged thereabout for an obvious purpose. Others of the piles making up the supporting structure of the device serve to support laterally spaced inclined longitudinal braces 5 upon which a plurality of graded vertical supports 6 are arranged. Certain of these supports 6, which are arranged in longitudinal alinement support upon their upper ends substantially U-shaped metal channel strips 7 and 8 which as will be noted, are secured as at 9 to transverse ties or bolsters 10 arranged upon the said uprights or supports 6, said metal channel strips 7 and 8 being arranged in spaced relation and adjacent to the oppositely disposed longitudinal guard rails 11 also supported upon the outer portions of the various bolsters or ties 10. Journaled in bearings in the opposite side walls of the several channel strips 7 and 8 are series of transversely disposed rollers 12 having the outer extremities of their bearings headed as at 13 whereby to prevent any possibility of lateral displacement of the same in addition to affording greater supporting surface for the toboggans which are moved upwardly thereover. The way constituted by the channeled strips 7 and 8, guard rails 11, all of which are supported upon the cross ties 10 constitute the loading or "haul-up" of the water toboggan and in order that the toboggan employed upon the same may be caused to move upwardly thereover onto the platform 2, an elevating chain 14 is engaged over socket wheels mounted in suitable bearings at the opposite ends of said loading way, not shown. Upstanding curves or fingers 15 are riveted to certain of the links of the chain at equal distances throughout its length and as will be understood, will afford means for engaging the rear end of the toboggan 16, as clearly shown in the Fig. 7 and cause the same to be carried with the elevating chain 14 upwardly over the rollers 12 onto the platform 2. Any suitable form of motor means may be employed for moving the elevating chain 14, such as conditions or preference may dictate. Furthermore, it is understood that the arrangement of the same with relation to the transverse rollers 12 is such as will permit the toboggans 16 elevated thereby to ride upon said rollers

thus relieving the chain of any excessive stress.

The curves or fingers 15 are preferably of U-shaped formation, as shown in the Fig. 4 and by consequence, the lower portion of the chain will be afforded an effectual guide means thereby, since these U-shaped curves will embrace the longitudinal guide rail 17 arranged below the loading way and supported upon other transverse ties or bolsters 18 which in turn are connected in a suitable fashion to the uprights supporting said way.

An arcuate track 19 is arranged upon the platform 2 and has one of the ends thereof alined with the upper end of the loading way, whereby the toboggans elevated by the latter will be discharged thereon to and permitted to be moved over transverse rollers 20 journaled in bearings in said track 19 to a point for discharge onto the toboggan or discharge way.

The toboggan or discharge way or chute of the improved device is composed of longitudinally disposed inclined side or guard rails 21 which are supported upon bolsters 22 carried on the upper end of the uprights adjacent thereto, while anchor strips 23 are also supported upon said bolsters 22 adjacent the inner sides of each of the guard rails 21 in parallel relation thereto and serve to rotatably support transverse rollers 24 in the vertical walls thereof; the bearings of these rollers 24 being headed as at 25, similarly to the rollers 12 for a like purpose.

As will be noted upon reference to the Fig. 2, the toboggan proper of the device is inclined and leads downwardly from the opposite end of the arcuate track 19 supported on the platform 2 to the surface of a body of water 26 below the supporting structure. The lower end of the toboggan including the guard rail 21 and the roller supporting channel strips 23 are curved upwardly as at 27 so that the same assumes a relationship substantially parallel to the surface of said body of water. Thus, with the discharge of a toboggan 16 from the chute onto the surface of the water, a slight upward lift will be imparted to the same and by consequence, said toboggan will be caused to ricochet over the surface of the body of water for a considerable distance, depending, of course, upon the momentum of the toboggan.

In order that the bather may have access to the platform 2, steps 28 are provided, although, of course, it is to be expressly understood that any suitable form of elevating means may be substituted in lieu thereof when desired.

Manifestly, the construction shown is capable of considerable modification and such modification as is within the scope of my claims, I consider within the spirit of my invention.

I claim:

1. A water toboggan, comprising a supporting structure, an elevated platform thereon, an inclined gravity discharge way leading downwardly from the platform to a body of water therebelow, said discharge way consisting of spaced longitudinally disposed side rails, longitudinally disposed channel strips arranged in parallel relation to the inner sides of said rails and a series of transverse rollers supported in said channel strips, the lower end of the discharge way being curved slightly upwardly whereby to effect the ricochetting of a toboggan discharged therefrom over the surface of said body of water, and a return way leading upwardly over the supporting structure to the platform.

2. A water toboggan comprising a supporting structure, an elevated platform thereon, an inclined gravity chute leading downwardly from the platform to a body of water therebelow, said chute consisting of oppositely disposed longitudinal side rails, angle strips disposed longitudinally and in parallel relation to the inner side of said side rails, a series of transverse rollers journaled in bearings in said angle strips, the lower end of the chute being curved slightly upwardly whereby to effect the ricochetting of a toboggan discharged therefrom over the surface of water, an inclined return way leading upwardly from the said body of water to said platform and comprising spaced longitudinal guard rails, channel strips disposed longitudinally and in parallel relation to said guard rails, a plurality of series of transverse rollers journaled in bearings in the opposite sides of said channel strips, a longitudinally disposed loading chain moving between said series of transverse rollers upwardly to a point adjacent the platform, a curved roller track on the platform having the opposite ends thereof communicating with the loading way and said chute and means for facilitating the movement of users to the platform.

In witness whereof I have hereunto set my hand.

HENRY CUCULLU.