May 25, 1926. 1,586,458

H. H. NEWBY

SURF BOARD

Filed August 10, 1925 2 Sheets-Sheet 1

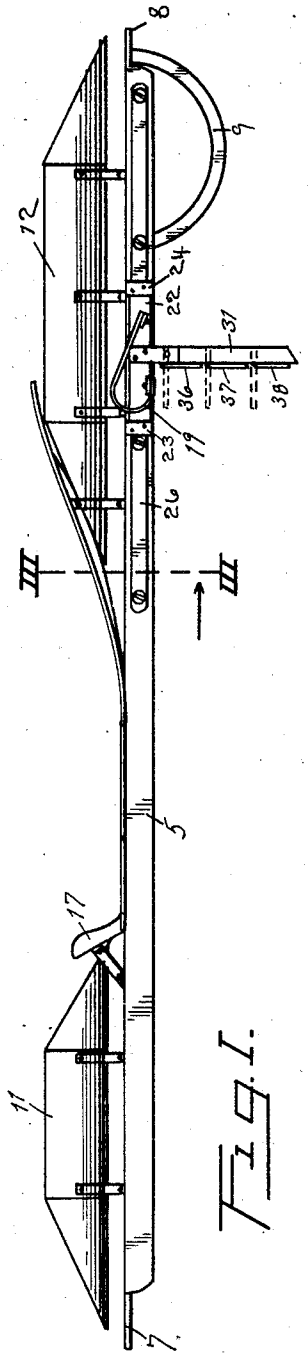


Fig. I.

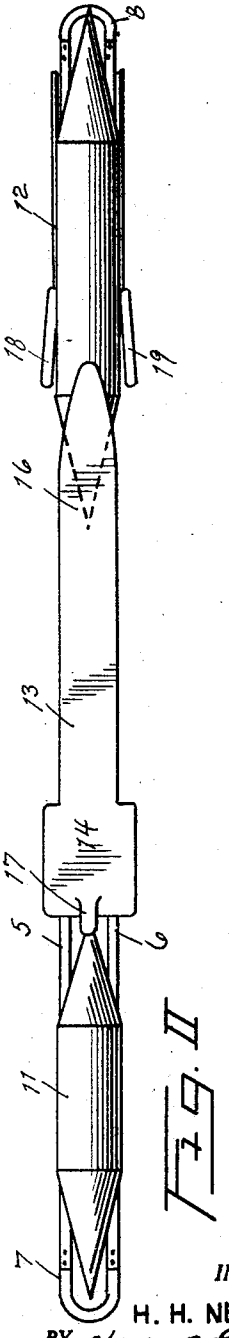


Fig. II

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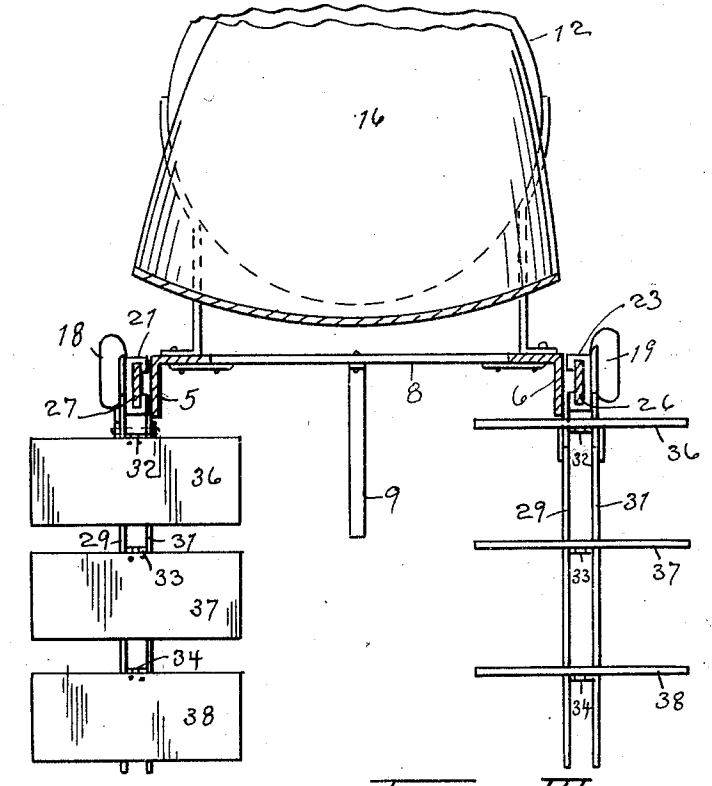


Fig. III.

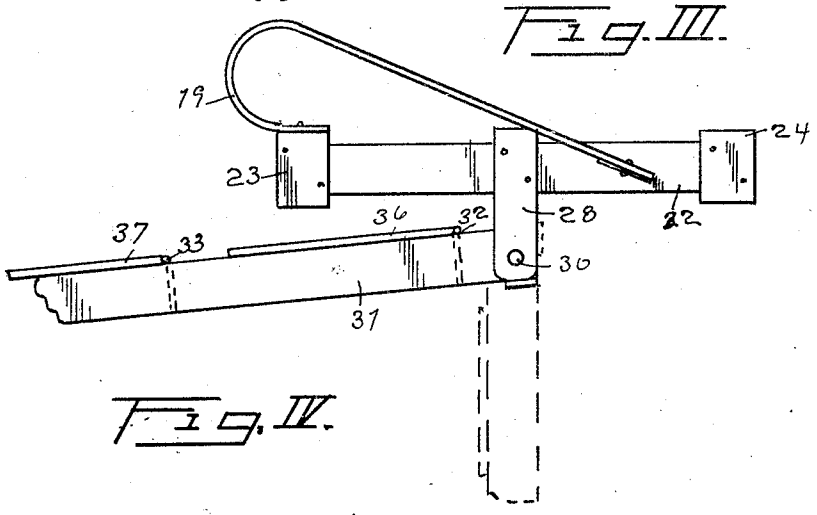


Fig. IV.

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Patented May 25, 1926. 1,586,458

UNITED STATES PATENT OFFICE.

HENRY HOWARD NEWBY, OF SAN QUENTIN, CALIFORNIA.

SURF BOARD.

Application filed August 10, 1925. Serial No. 49,410.

This invention relates to improvements in surf boards.

The principal object of this invention is to provide a surf board which is light in weight and therefore easily transported.

Another object is to produce a device of this character which takes up a minimum amount of space.

A further object is to produce a device of this character which will support a person when in the water, one which will not capsize and one which may be readily propelled through the water.

A still further object is to provide means whereby a minimum amount of effort will cause a rapid propulsion.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,—

Figure I is a side elevation of my improved surf board,

Figure II is a top plan view of Figure I,

Figure III is a cross-section taken on the line 3—3 of Figure I, and

Figure IV is an enlarged fragmentary detail view of one of the propellers.

Applicant is aware of the fact that surf boards have been heretofore employed, both as life savers and amusement devices. These, however, have employed the common type of rotary propeller which necessitated a circular motion of the feet or arms in order to rotate the propeller. The result of this construction was that a large amount of head resistance materially cut down the speed at which the device could be propelled. Applicant has overcome this difficulty by providing a very simple propelling mechanism which has a minimum amount of resistance when moving forward through the water and a large amount of resistance when moving backward thereby driving the surf board forwardly.

In the accompanying drawings wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numerals 5 and 6 designate parallel angle-iron frame members which are connected at their forward and rear ends by circular plates 7 and 8. At 9 I have shown a rest or skid which serves to protect the propellers when the device is being taken ashore.

Positioned on the angle-iron members, 5 and 6 is a rear float 11 and a front float 12, while positioned between the same is a board 13 having a seat portion 14 and a breast board 16.

An upstanding member 17 is so positioned as to form a back, while upon the seat 14 is formed a stop. When lying down upon the breast board 16, the legs of the user will lie parallel with the float 11, while the hands will grasp handles 18 and 19 which are attached to sliders 21 and 22, respectively. As both the sliders and their propelling surfaces are identical, but one will be described.

By referring to Figures III and IV it will be noted that the slider 22 has a pair of yokes 23 and 24 attached thereto, which are adapted to straddle a slide-way 26 adapted to be attached to the angle iron member 6. A similar slide-way is shown at 27 and is attached to the angle iron member 5.

Depending downwardly from the slider 22 is a strap 28 to which is pivotally secured parallel members 29 and 31 as shown at 30, between which are positioned hinges 32, 33 and 34 to which hinges are secured propelling plates 36, 37 and 38, respectively.

The operation of my device is as follows:—

Assuming that the same is complete as shown in Figure I, the user places the same in the water with the result that the device will rest lightly upon the surface of the water. The user then straddles the device, preferably lying upon the breast board in such a manner that the member 17 acts as a stop, while the feet lie parallel with the float 11 and the chin rests upon the forward portion of the breast board. Assuming that the parallel members 29 and 31 are in the folded position shown in Figure IV, the same are then bent downwardly to the position shown in Figure I after which the user grasps the handles 18 and 19 and by moving the arms backward and forward so as to reciprocate the slider 22, motion will be imparted to the propellers. The forward movement of the arms will cause the propelling plates to assume the dotted line position of Figure I, while backward movement of the arms will cause the plates to assume the full line posi-

tion of Figure I, the result being that practically no resistance is offered to the forward movement of the propelling device, but considerable resistance is afforded to the backward movement of the same.

This action naturally causes the device as a whole, together with the user, to move forward through the water.

It will thus be seen that I have produced a very simple and efficient device and one which will accomplish all the objects above set forth.

It is obvious that the floats may be made in any fanciful design desired to represent fish, animals or any other object desired.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claim.

Having thus described my invention, I claim:—

In a device of the character described, a frame, a pair of floats secured to said frame and separated one from the other, a body supporting surface positioned between said floats, a slide-way formed on the opposite side of said frame, a carrier adapted to be reciprocated on said slide-way, downwardly extending parallel members pivotally secured to said carrier, and propelling plates pivotally secured to said downwardly extending parallel member, said plates being adapted to lie in a horizontal plane when said carrier is moved forward and to lie in a vertical plane when said carrier is moved in a reverse direction.

In testimony whereof I affix my signature.

HENRY HOWARD NEWBY.