



(11) Publication number : **0 553 064 A1**

(12) **EUROPEAN PATENT APPLICATION**

(21) Application number : **93830014.2**

(51) Int. Cl.⁵ : **B63C 11/48**

(22) Date of filing : **20.01.93**

(30) Priority : **21.01.92 IT BS920005**

(43) Date of publication of application :
28.07.93 Bulletin 93/30

(84) Designated Contracting States :
ES FR GR IT PT

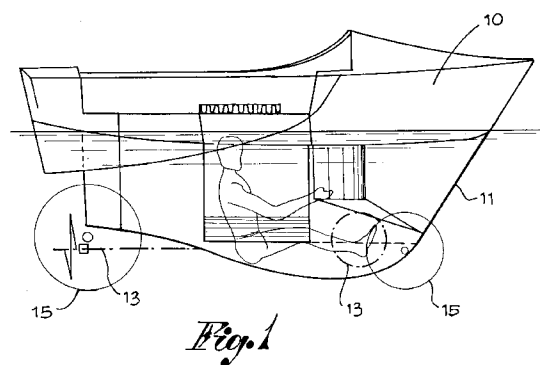
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(54) **Semi-submersed water vehicle.**

(57) The invention provides a boat for one passenger or more provided with a floating hull (10) and, below said hull, an immersed cabin (11) for passenger(s) and to be entered by a hatchway (12) at the hull-level. The boat can be provided with a pedal propulsion.



The present invention concerns boats or watercrafts in general and more in particular a human-propelled water vehicle, especially by pedals, for one passenger or more.

Various kinds of watercrafts with screw propeller, paddle-wheel or the like propulsion driven by an engine or pedal transmission are already known in the art and normally used. Said boats float on the water surface and the passengers get on it while it always and in all cases keeps the emerged position, without the possibility of underwater observation.

On the contrary the object of the present invention is to provide a vehicle in the form of boat or watercraft which is designed so as to float on the water surface and allow at the same time the navigation and underwater vision for one passenger or more.

For this end, the vehicle according to this invention includes a floating hull and, below said hull, a transparent cabin for one passenger or more to be entered by means of a hatchway at the hull-level, the cabin being immersed and allowing underwater observation and vision in all directions, including the downwards one.

However, more details of the invention will result from the course description which is made by referring to the attached drawings, indicative and not limitative, wherein:

Figures 1 and 2 show respectively a side view and a top plan view of a vehicle according to the invention and pedal-propelled; and Fig. 3 and 4 show two similar views of a motor-propelled boat.

In both the illustrated embodiments, the boat includes a floating hull 10 and below the hull, in order to result immersed, a cabin 11 defined by partially or totally transparent walls. The hull 10 will be appropriately ballasted and sized as well as provided with a hatchway 12 to enter the cabin below.

The cabin 11 is suitably settled to the hull, careened and sized so as to house at least a sitting passenger, preferably two passenger or more placed in side by side or tandem position - see Fig. 3 -.

Besides a direction helm the vehicle can also be provided with a screw propeller or else, with a control shaft 13 which can be driven by at least a passenger placed in the immersed cabin as shown in Fig. 1. As an alternative the vehicle could be provided with an outboard propelling motor 14 as shown in Fig. 3.

In all cases the passenger placed in the immersed cabin can float and make underwater observations either for controls and plottings or entertainment. Nevertheless, other passengers could be placed on the floating hull as it is in a common boat.

Finally it is to be noticed that some wheels 15 can be applied to the hull or the cabin - see Fig. 1 - as a support or prop on the ground in order to make out of water shiftings of the boat easier.

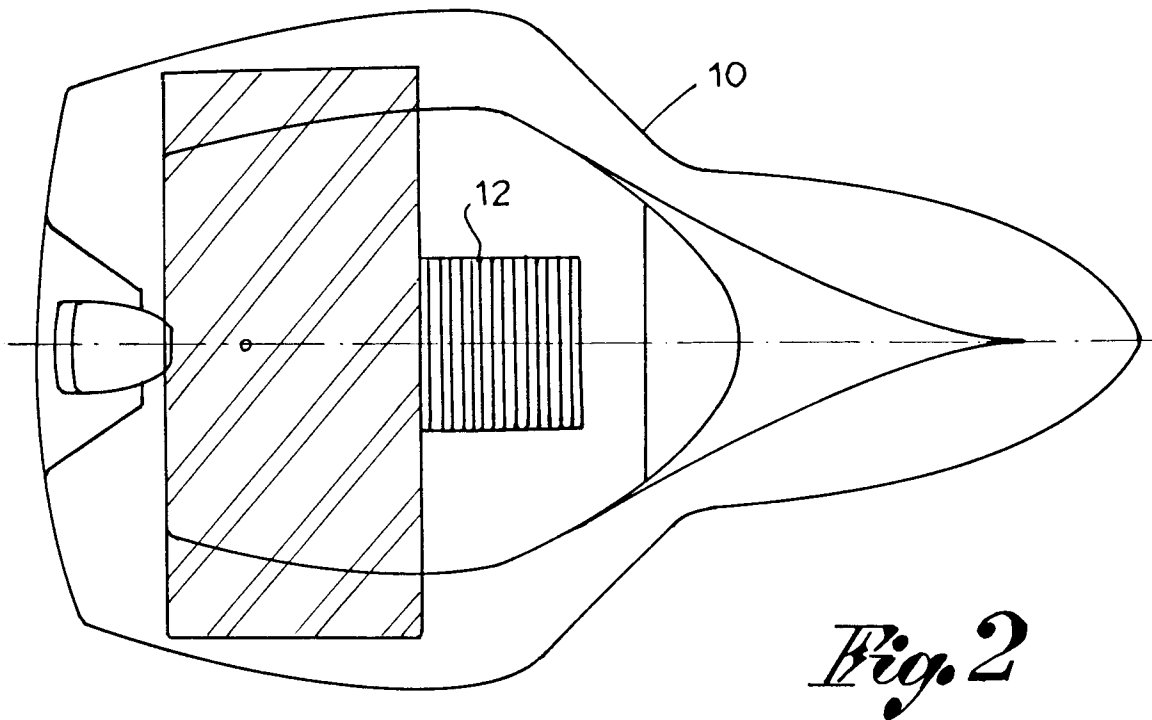
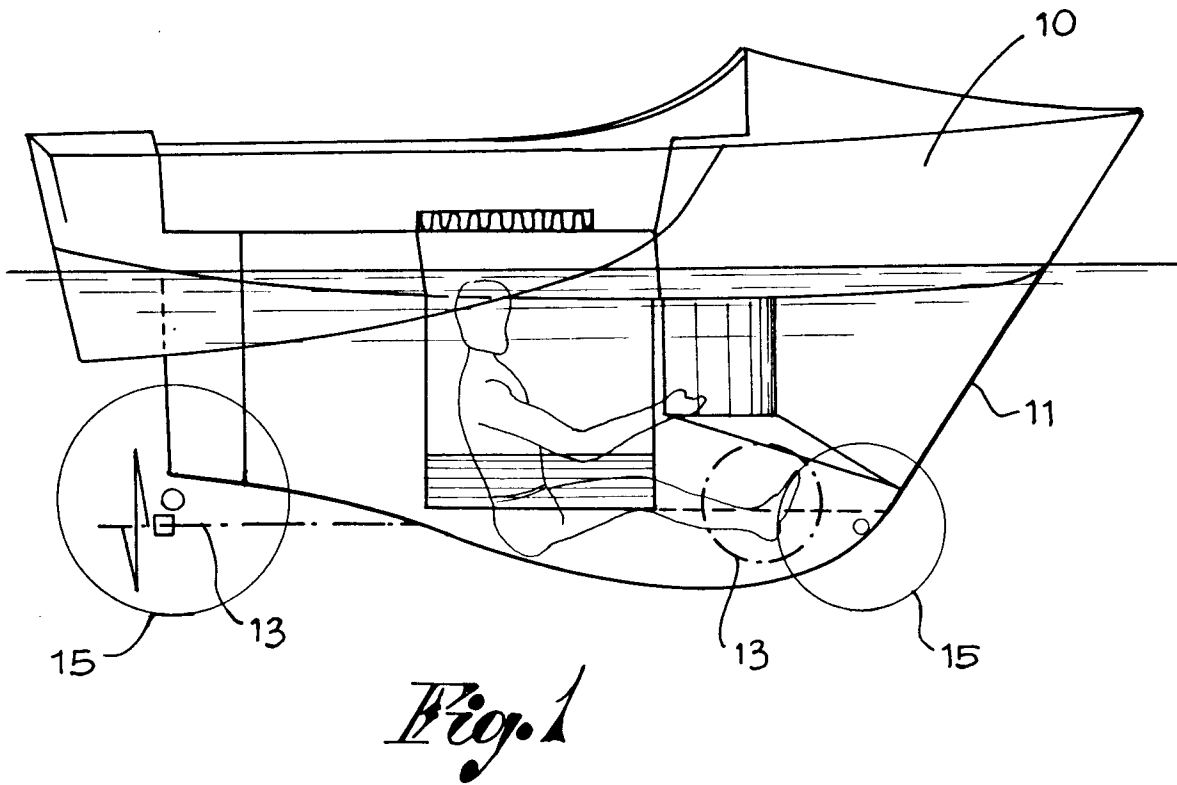
Claims

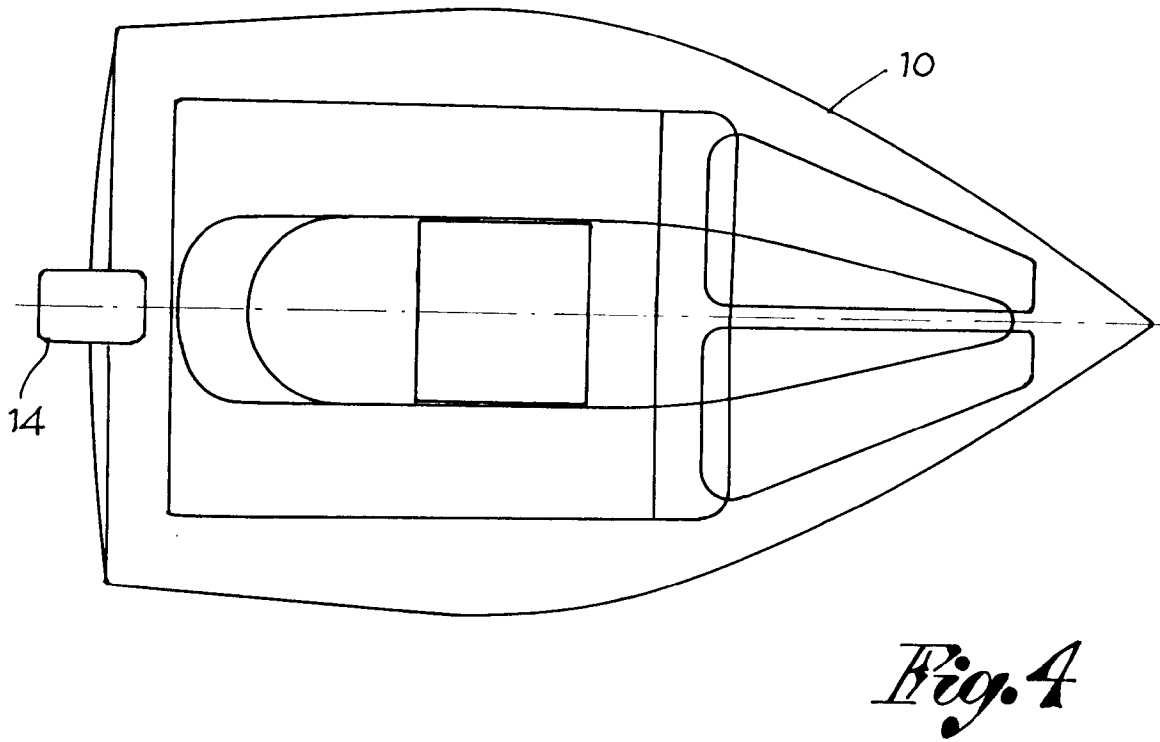
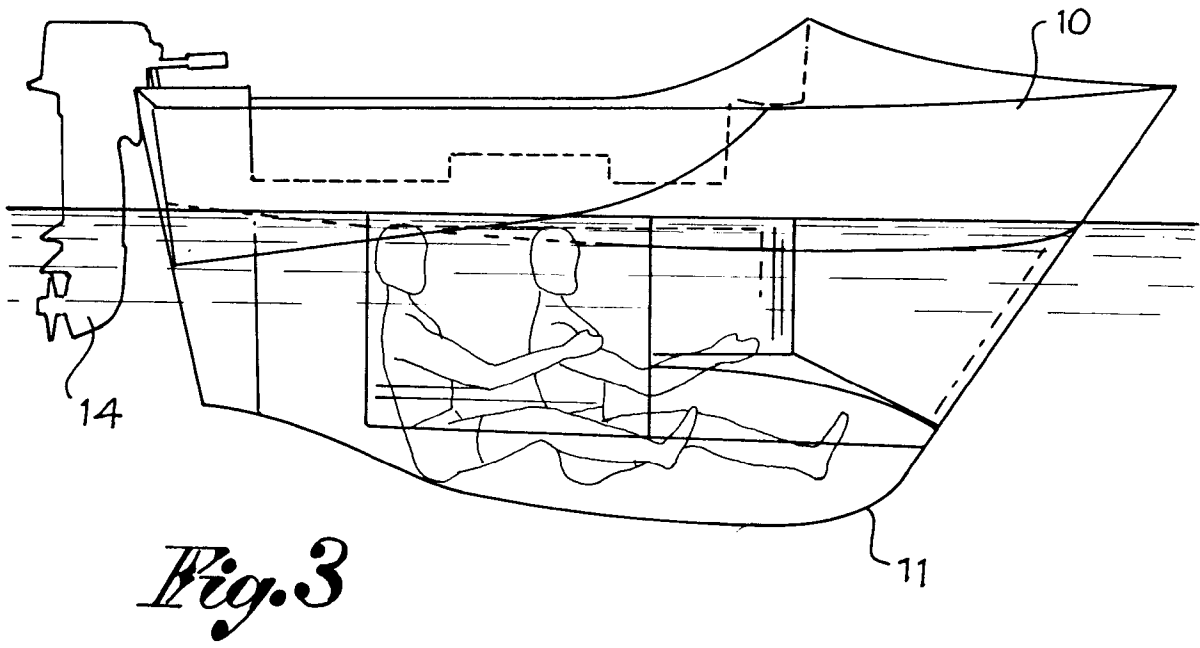
1.) A water vehicle for one passenger or more **characterized** in that it includes a floating hull (10) and, below said hull, an immersed cabin (11) for passenger(s) and to be entered by means of a hatchway (12) at the hull-level.

2.) Water vehicle as claimed in claim 1, **characterized** in that the immersed cabin (11) is tied up to the floating hull and defined by partially or totally transparent walls for underwater observation and vision.

3.) Water vehicle as claimed in claims 1 and 2, **characterized** by steering means and by a pedal propelling system driven by at least a passenger placed in the immersed cabin.

4.) Boat as claimed in any of the previous claims **characterized** in that the floating hull is also provided with seats for one passenger or more.







European Patent
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EUROPEAN SEARCH REPORT

Application Number

EP 93 83 0014

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X Y	EP-A-0 277 068 (M.RAMOND) * figures * ---	1,2,4 3	B63C11/48
Y	EP-A-0 165 192 (A.GASS) * figures * ---	3	
X	GB-A-2 227 468 (MITSUI ENGINEERING & SHIPBUILDING CO.) * figures * ---	1,2,4	
A	FR-A-883 317 (Y.LE PRIEUR) * figures * -----	3	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B63C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 31 MARCH 1993	Examiner STIERMAN E.J.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (P0401)