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(54) **Hydrofoil skates**

(57) Hydrofoil skates provided for skating, and/or skimming on or in liquids by means of one or more hydrofoil blades 3, when locked in skating position C (fig. 7), and for swimming in liquids using the same hydrofoil blades 3 (where applicable) as swim fins when the same hydrofoil blades 3 are locked in swimming position D (fig. 7) by way of one or more hinges 2 and any locking mechanism. The said one or more hydrofoil blades 3 may be removably or rotatably attached to the said one or more shoes 1, by way of any attaching mechanism or one or more hinges 2, so as to rotate the same hydrofoil blades 3 from position E to position F (Fig.11) in order to make it easier for the user to walk on land without having to take off the said shoes 1.

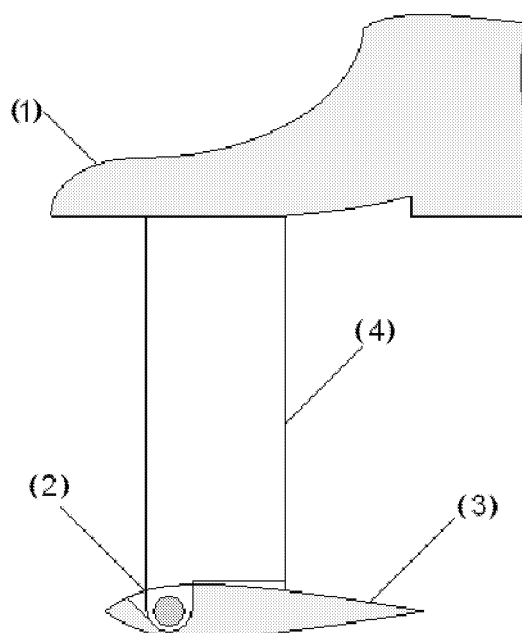


Fig. 3

Description

[0001] The present invention relates to hydrofoil skates provided in general to travel, skate, and/or skim on or in liquids, and for swimming using the same invention as swim fins, and for walking by detaching one or more hydrofoil blades 3 from one or more shoes 1.

[0002] The main object of the present invention is to provide hydrofoil skates that can be used in general as a means of travel, transport, leisure, sport, fishing, and as a fast, silent and possibly undetectable means of approach in stealth, military, assault, or rescue missions or other similar applications.

[0003] Further object of the present invention is to provide a means with which one or more hydrofoil blades 3 can be used to travel, skate, and/or skim on or in liquids (fig. 8), and which can also be used as one or more swim fins for swimming in liquids (fig. 9).

[0004] Further object of the present invention is to provide a means with which to travel, skate, and/or skim on or in liquids (fig. 8), and which can also be used as one or more swim fins for swimming in liquids (fig. 9), in which one or more hydrofoil blades 3 may be removably or rotatably attached to one or more shoes 1 in a way that the user can remove or rotate said one or more hydrofoil blades 3 so as to walk on land without having to take off the said shoes 1.

[0005] The present invention consists of one or more shoes 1 onto which one or more hydrofoil blades 3 are attached. The size, shape, and configuration of the shoes 1, and of the hydrofoil blades 3, and all or any other parts of the present invention may vary as required.

A detailed description of the hydrofoil skates according to some embodiments of the present invention will be now provided with reference of the annexed drawings in which:

Fig. 1 is a side view of the hydrofoil skates according to the first embodiment of the present invention.

Fig. 2 is a front elevation view of the hydrofoil skates according to the first embodiment of the present invention.

Fig. 3 is a side view of the hydrofoil skates according to the second embodiment of the present invention.

Fig. 4 is an exploded side view of the hydrofoil skates according to the second embodiment of the present invention.

Fig. 5 is a side view of the hydrofoil skates according to the second embodiment of the present invention showing a first member displacement.

Fig. 6 is a side view of the hydrofoil skates according to the third embodiment of the present invention.

Fig. 7 is a side view of the hydrofoil skates according to the third embodiment of the present invention showing a first member displacement.

Fig. 8 is a side view of the hydrofoil skates according to all and any embodiments of the present invention being used to travel, skate, and/or skim on or in liquids.

Fig. 9 is a side view of the hydrofoil skates according to the third embodiment of the present invention being used as swim fins to swim in liquids.

Fig. 10 is a side view of the hydrofoil skates according to the fourth embodiment of the present invention.

Fig. 11 is a side view of the hydrofoil skates according to the fourth embodiment of the present invention showing a first member displacement.

Figs. 1 and 2 show the first embodiment of the present invention in which the hydrofoil blade 3 is immovably attached to a strut 4, which is attached to the shoe 1.

Figs. 3, 4 and 5 show the second embodiment of the present invention in which the hydrofoil blade 3 is moveably attached to a strut 4 by a hinge 2, so that the same hydrofoil blade 3 can rotate from position A to position B in order to offer less resistance when the shoe 1 is being pushed forward.

Figs. 6 and 7 show the third embodiment of the present invention in which there is a hinge 2 on the strut 4 that permits the hydrofoil blade 3 to be swung from skating position C to swimming position D.

Figs. 10 and 11 show the fourth embodiment of the present invention in which there is one or more hinges 2 on the strut 4 that permits the hydrofoil blade 3 to be swung from skating position E to walking position F.

Claims

1. One or more shoes 1 onto which one or more hydrofoil blades 3 are attached in such a way that will make it possible for the user to travel, skate, and/or skim on or in liquids.
2. One or more shoes 1 according to claim 1 onto which one or more hydrofoil blades 3, are movably attached by means of one or more hinges 2.
3. One or more shoes 1 according to all or any of the above claims in which one or more hydrofoil blades 3 can be rotated around on one or more hinges 2 in

order to serve as one or more swim fins.

4. One or more shoes 1 according to all or any of the above claims on which one or more hydrofoil blades 3 can be attached or detached or rotated as necessary in order to make it possible to walk on land with the said shoes 1 without having to remove the same shoes 1.

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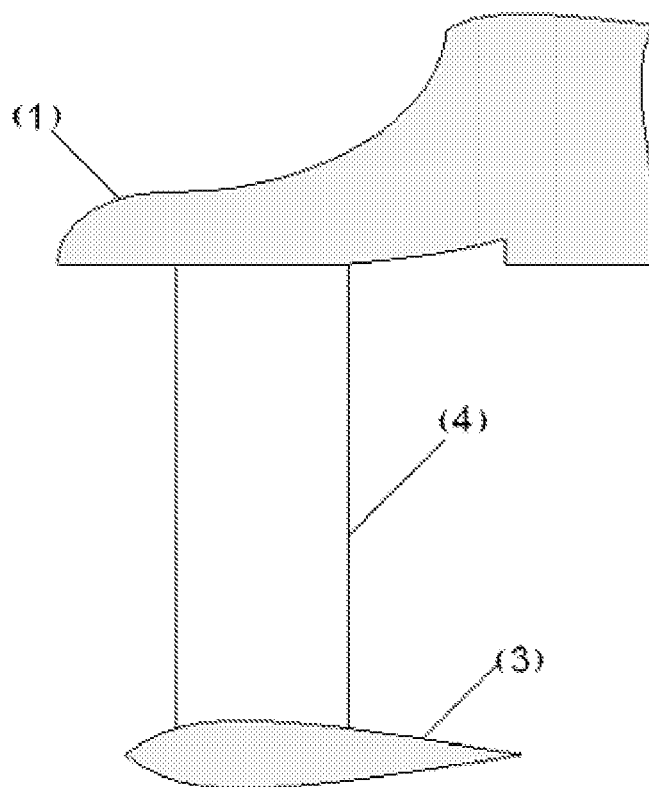


Fig. 1

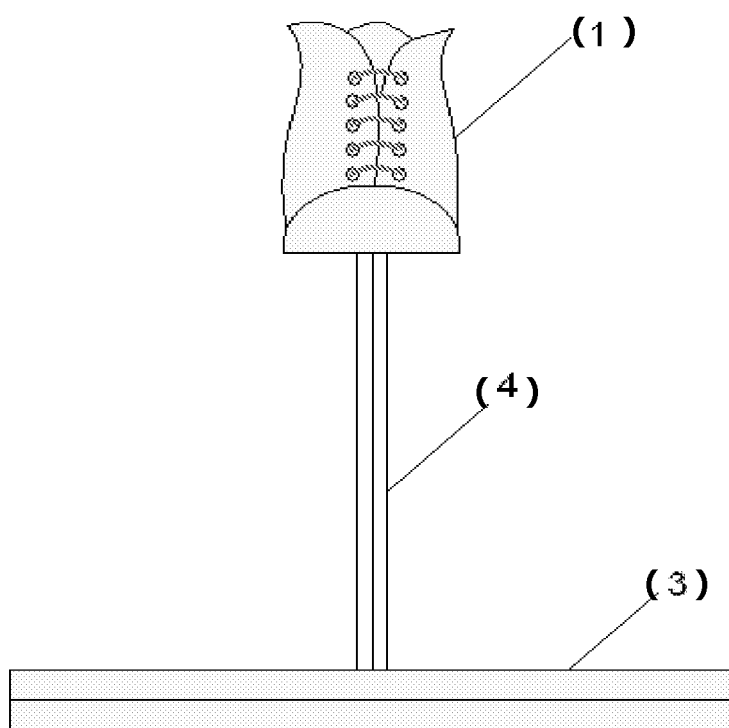


Fig. 2

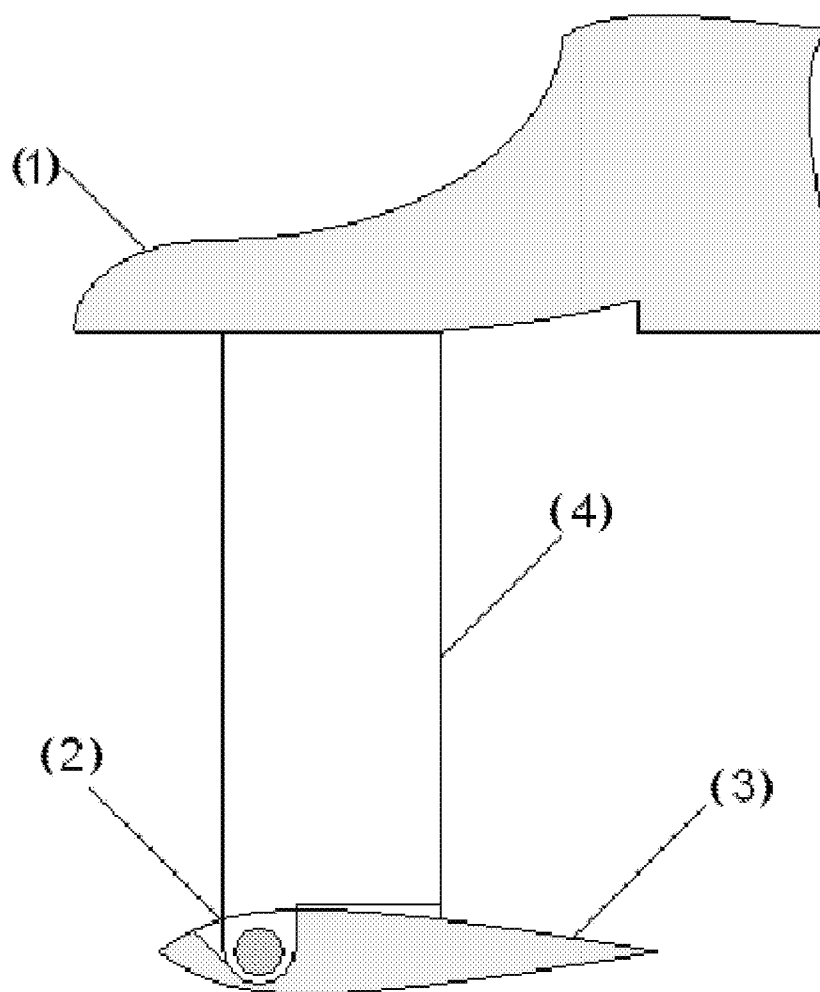


Fig. 3

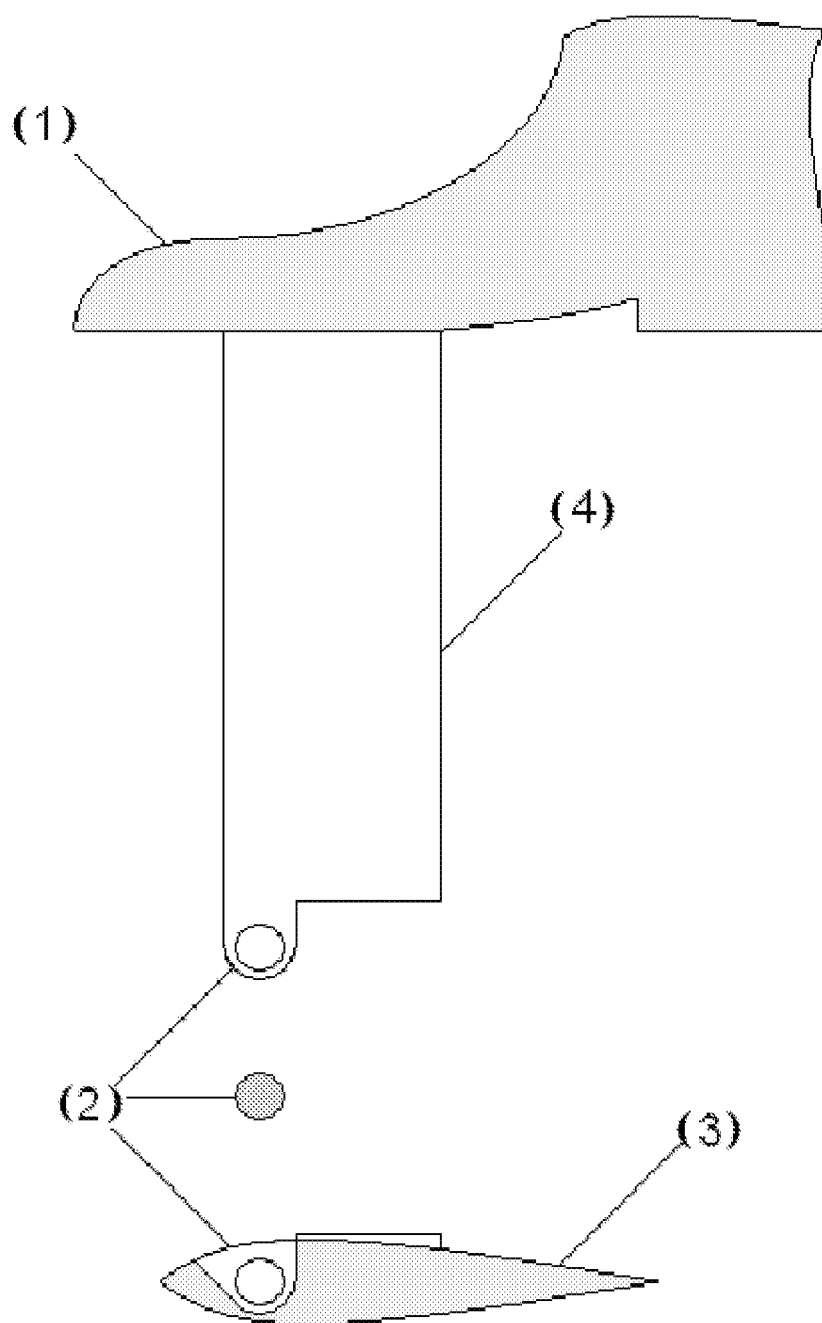


Fig. 4

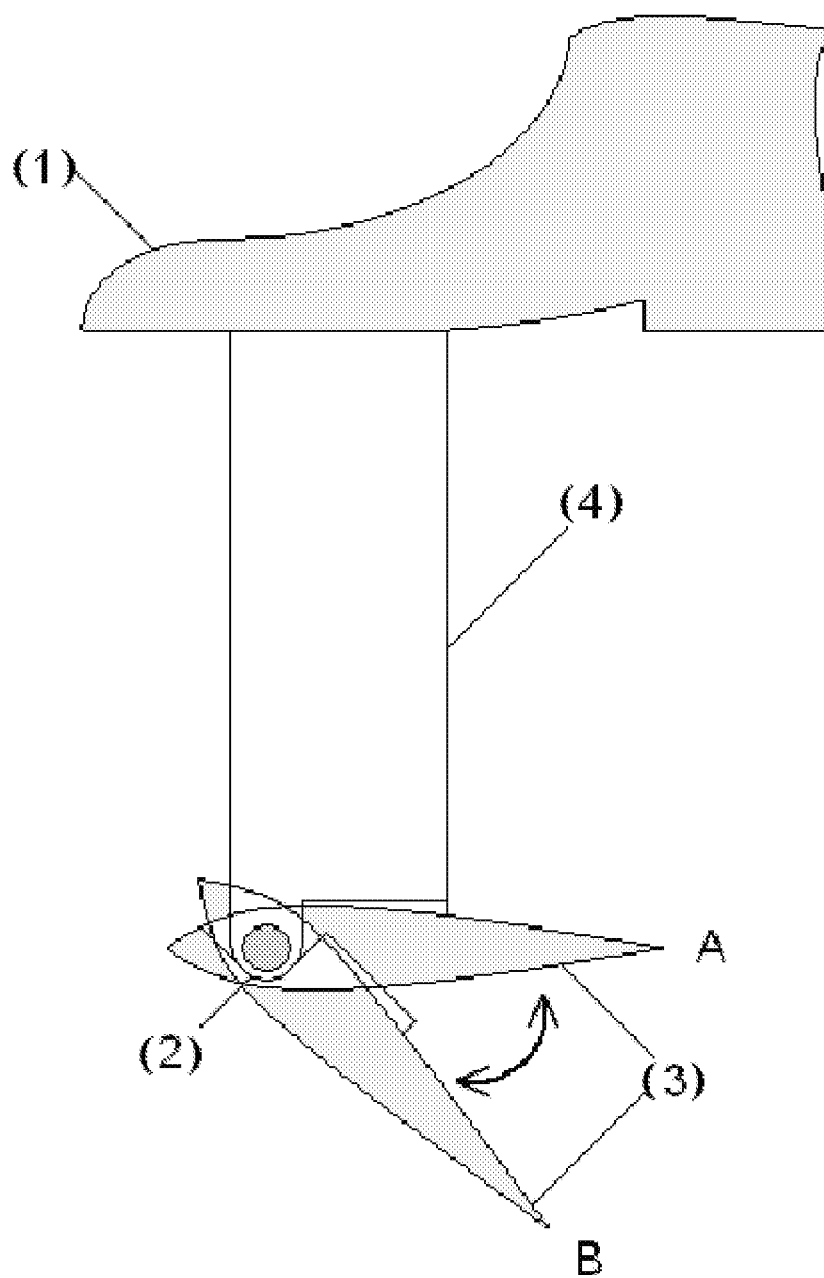


Fig. 5

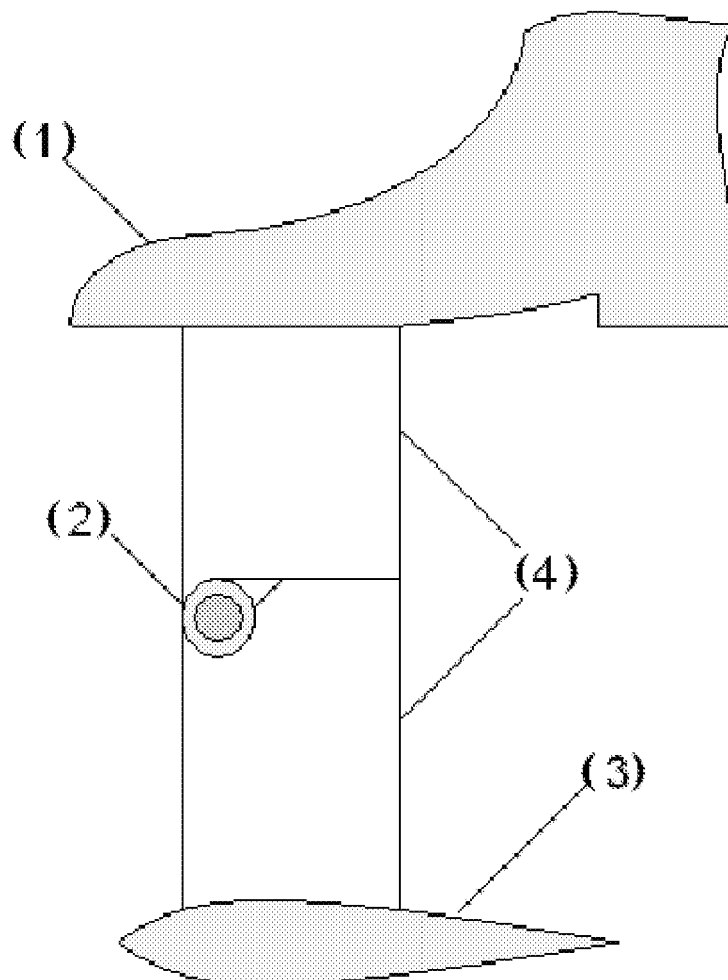


Fig. 6

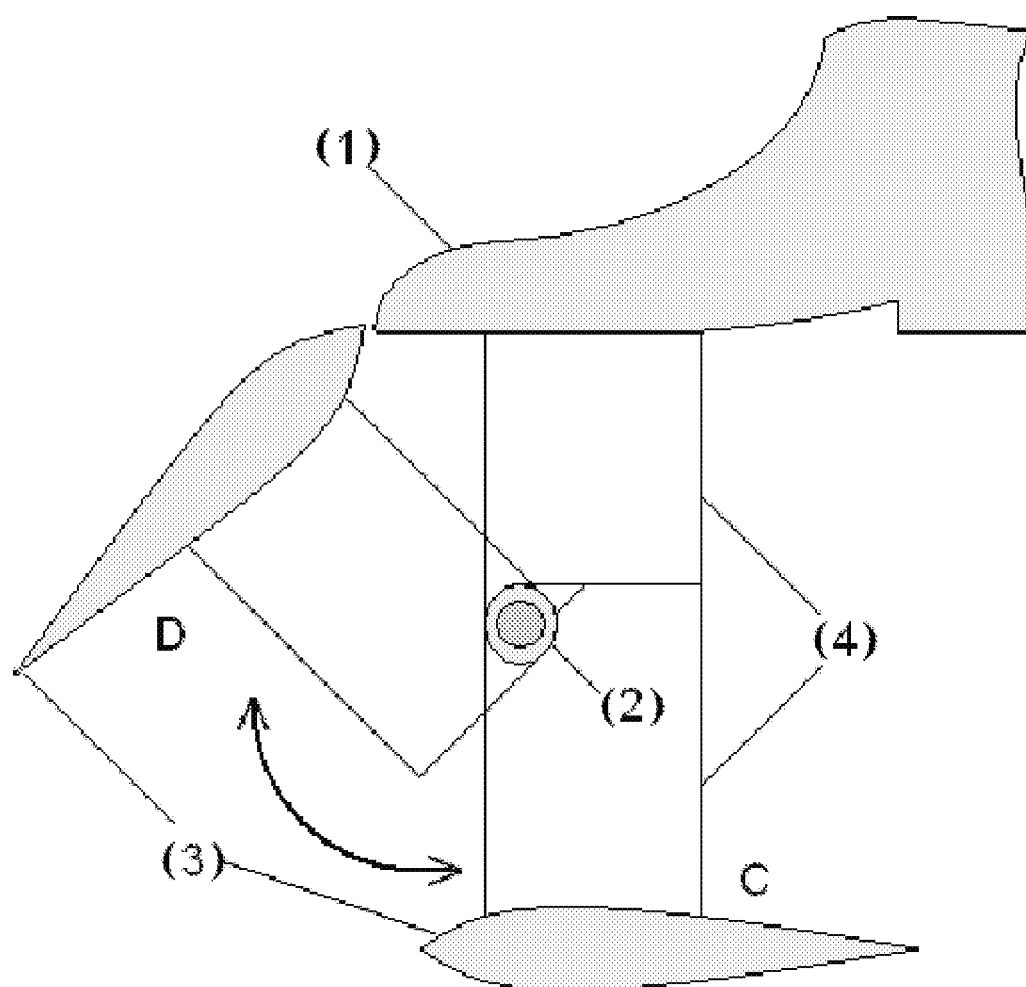


Fig. 7

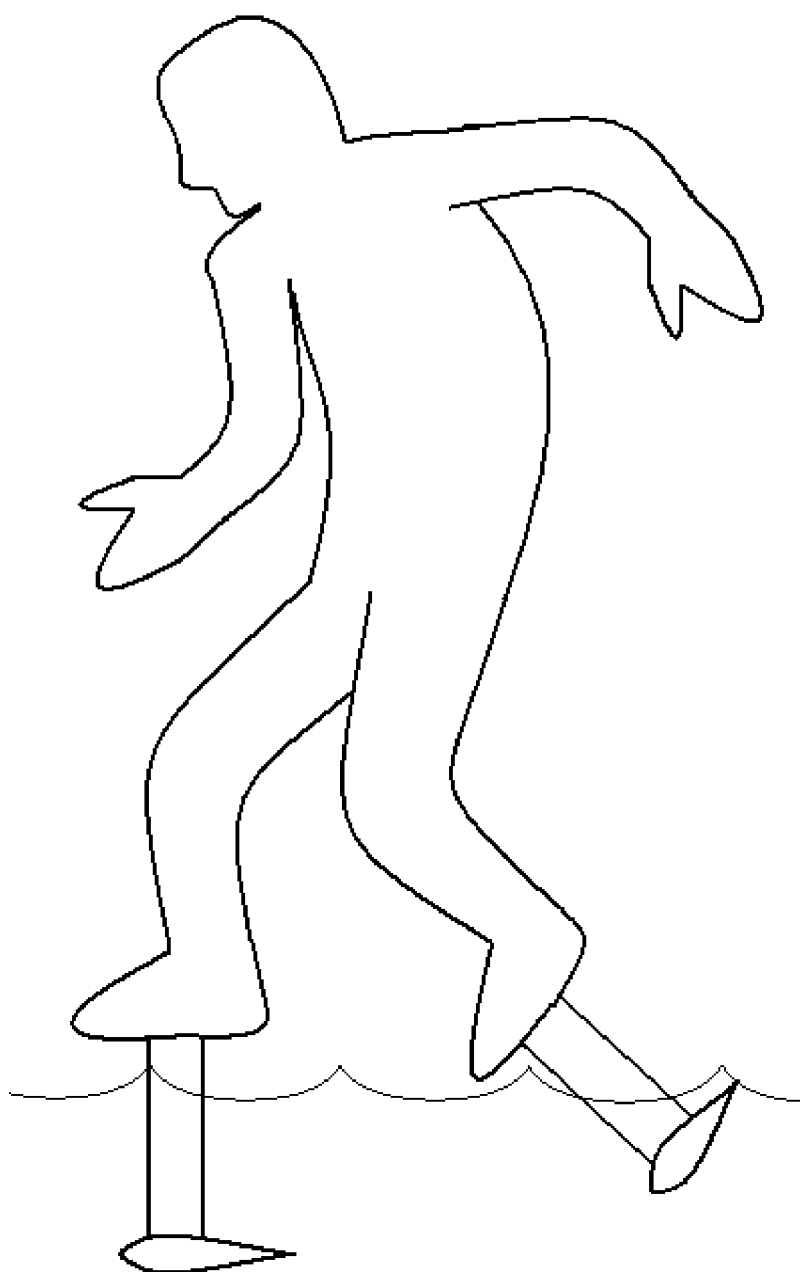


Fig. 8

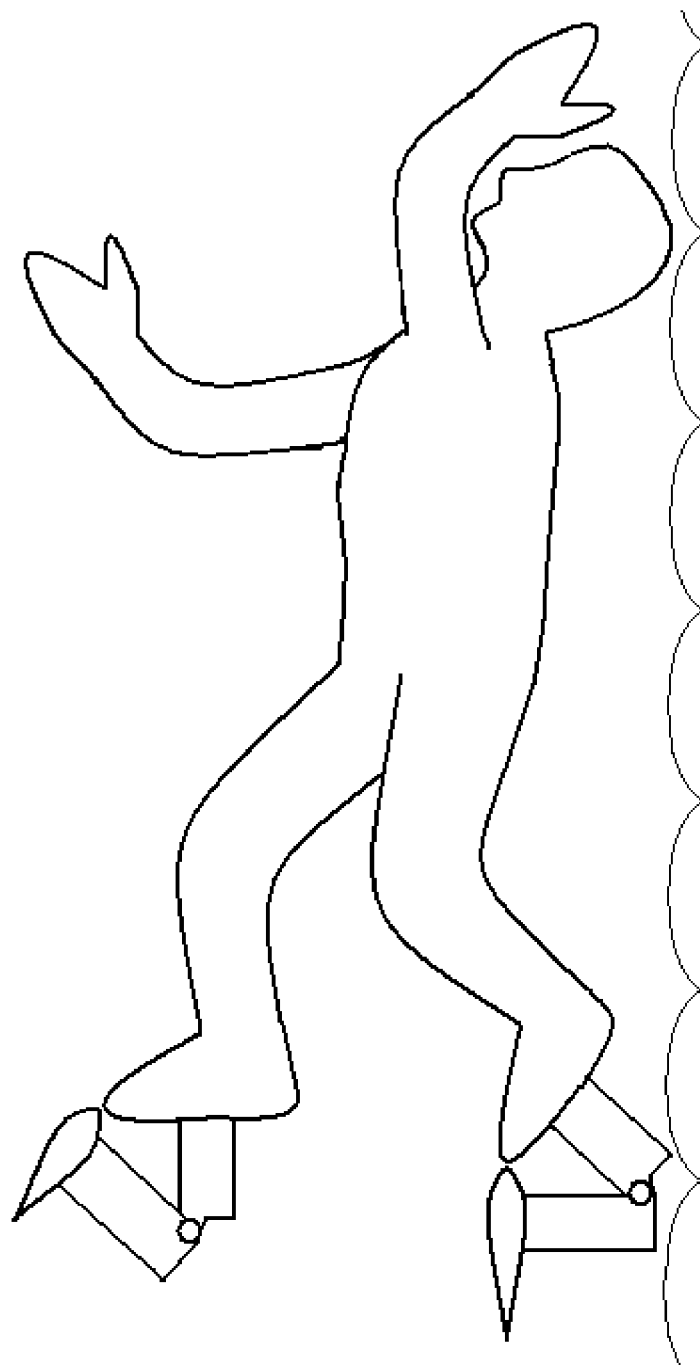


Fig. 9

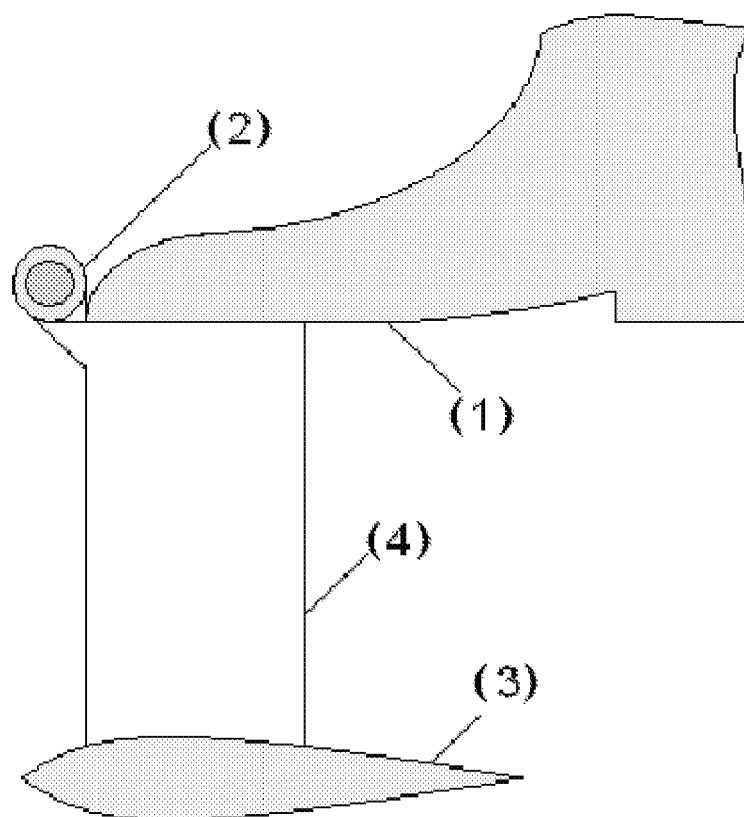


Fig. 10

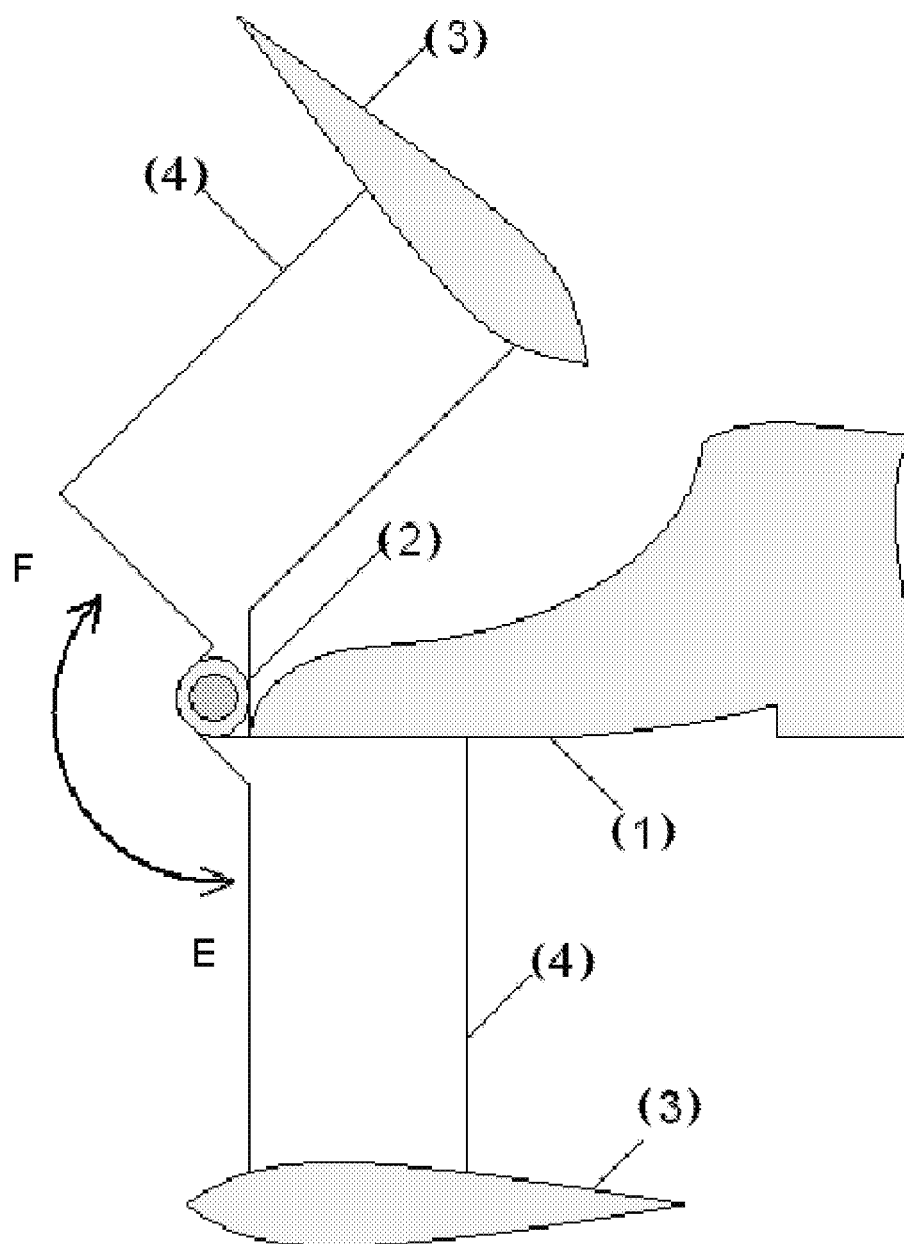


Fig. 11



EUROPEAN SEARCH REPORT

Application Number
EP 09 18 0062

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2008/008011 A1 (MADIANA AB [SE]; MAGNUSSON FREDRIK [SE]) 17 January 2008 (2008-01-17)	1-3	INV. A43B5/08 A43B5/18 A63B31/11 B63B35/83
Y	* figures *	4	
X	US 6 397 496 B1 (SEYMOUR KEAHINUIMAKAHAHA KALAN [GB]) 4 June 2002 (2002-06-04) * column 3, lines 1-4; claim 23; figures *	1	
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Y	US 3 081 467 A (CICCOTELLI STEPHEN S) 19 March 1963 (1963-03-19) * column 1, lines 17-21 *	4	
A	US 2008/305698 A1 (ROSIELLO KEITH M [US]) 11 December 2008 (2008-12-11) * figures *	1-3	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			A43B A63B B63B
Place of search		Date of completion of the search	Examiner
Munich		6 September 2010	Vesin, Stéphane
<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>			

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 09 18 0062

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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