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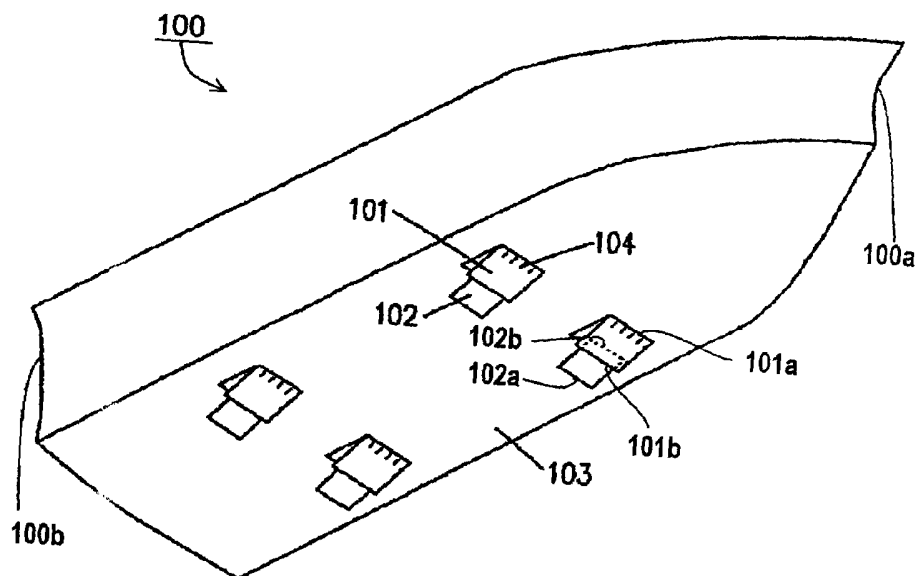
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Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: MARINE HYDRO LIFT FLAPS AND METHODS OF USING SAME



(57) Abstract: An apparatus for improving performance of a vessel, wherein the vessel has a hull (100) having a bottom (103), a bow (100a) and a stem (100b). In one embodiment, the apparatus has at least one flap (101), wherein the flap (101) has a forward edge (101a), a rear edge (101b), and a body portion defined therebetween the forward edge (101a) and the rear edge (101b), the body portion having an exterior surface (101c) and an opposite, interior surface (101d), and is movably mounted to the bottom (103) of the hull (100) at the forward edge (101a) such that each flap (101) can be moved between a first position and a second position apart from the first position. The apparatus also has means for moving the flap (101) between the first position and the second position.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/02750

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B63B 1/22

US CL : 114/285

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 114/271, 284-287, 67R, 145A

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,159,131 A(FREDERICK) 01 December 1964 (01.12.1964).	1,2,7,14,16,21
X	US 3,463,109 A (WEILER) 26 August 1969 (26.08.1969)	1,2,7,14,16,21
X	US 3,389,323 A (KERCHEVAL) 29 June 1971 (29.06.1971)	1,2,7,14,16,21



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