



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 116 650 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
16.10.2002 Bulletin 2002/42

(51) Int Cl.7: **B63H 20/10, B63H 21/26**

(43) Date of publication A2:
18.07.2001 Bulletin 2001/29

(21) Application number: **01100076.7**

(22) Date of filing: **10.01.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventor: **Tsujii, Eiichiro**
Iwata-shi, Shizuoka-ken (JP)

(74) Representative: **Grünecker, Kinkeldey,
Stockmair & Schwanhäusser Anwaltssozietät
Maximilianstrasse 58
80538 München (DE)**

(30) Priority: **11.01.2000 JP 2000006079**

(71) Applicant: **SANSHIN KOGYO KABUSHIKI KAISHA**
Hamamatsu-shi Shizuoka-ken (JP)

(54) **Outboard engine**

(57) An outboard engine (1) having an outboard engine body (4) and a bracket member (3) for supporting said outboard engine (1) on a hull (2), said bracket member (3) is provided for supporting said outboard engine (1) rotatable about a swivel axis (X) and tiltable about a tilt axis (Y) between a running position (A) and a tilt-up position (B), wherein a tilt lock means (40,42;60,61) is provided between said outboard engine body (4) and said bracket member (3) for supporting said outboard engine body (4) in the tilt-up position (B) and preventing rotation of said outboard engine body (4) about the swivel axis (X) when said tilt lock means (40,42;60,61) is in a locking position (D).

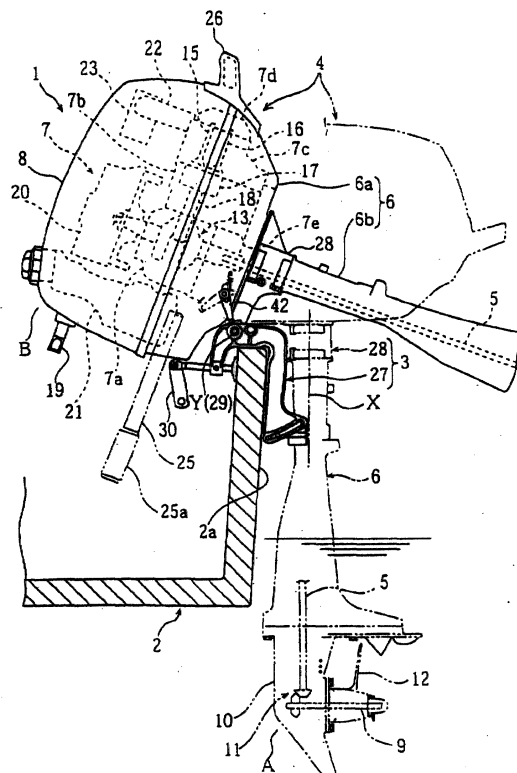


FIGURE 1

EP 1 116 650 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 10 0076

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.7)
X	GB 513 293 A (DOUGLAS ROLPH CLARKE) 9 October 1939 (1939-10-09)	1	B63H20/10 B63H21/26
Y	* page 2, line 101 - page 3, line 88; figures 1,2,9 *	3	
A	---	2	
Y	US 4 726 797 A (TAGUCHI MICHIMIRO) 23 February 1988 (1988-02-23)	3	
A	* column 2, line 22 - line 67 * * column 3, line 55 - column 4, line 4; figures 1-3 *	2,4-6	
A	---		
A	US 4 863 405 A (HERVAT JOHN C ET AL) 5 September 1989 (1989-09-05) * column 3, line 67 - column 5, line 9; figures 2,3 *	1-5	
A	---		
A	US 3 511 460 A (SHIMANCKAS WILLIAM J) 12 May 1970 (1970-05-12) * figure 1 *	7-9	

			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B63H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 28 August 2002	Examiner Mauriès, L
<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 (P04001)

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

EP 01 10 0076

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-08-2002

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
GB 513293	A	09-10-1939	NONE		

US 4726797	A	23-02-1988	JP	2064606 C	24-06-1996
			JP	6002479 B	12-01-1994
			JP	62071798 A	02-04-1987

US 4863405	A	05-09-1989	CA	1322132 A1	14-09-1993
			JP	1311989 A	15-12-1989

US 3511460	A	12-05-1970	NONE		

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82