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㉓ Applicant: **YAMAHA HATSUDOKI KABUSHIKI
KAISHA
2500 Shingai
Iwata-shi
Shizuoka-ken, 438 (JP)**

㉔ Inventor: **Saito, Tetsushi
88 Miyano issiki,
Toyoda-sho
Iwata-gun,
Shizuoka-ken (JP)**

㉕ Representative: **Patentanwälte Grünecker,
Kinkeldey, Stockmair & Partner
Maximilianstrasse 58
D-80538 München (DE)**

㉖ **Cylinder head lubricating system of an internal combustion engine.**

㉗ The present invention concerns a cylinder head lubricating system of an internal combustion engine comprising a cylinder head (24), an intake and exhaust camshaft (53;63) having cam lobes (78,96) for operating a plurality of intake and exhaust valves (27,28,29,36,37), said intake and exhaust camshaft (53,63) being supported in the cylinder head (24) by intake and exhaust camshaft bearings (49,52,59;62,68), an oil pump (103), a first and a second lubricant conduit means (104,105,107,124) extending to the intake and exhaust camshaft bearings (49,52,59;62,68) respectively, wherein the length of the first lubricating conduit means (104,105,107,124) from the oil pump (103) to the intake camshaft bearings (49,52,59) is shorter than

the length of the second lubricating conduit means (104,105,107,124) from the oil pump (103) to the exhaust camshaft bearings (62,68). The lubricating system is improved by a greater number of intake camshaft bearings (49,52,59) than exhaust camshaft bearings (62,68), the intake camshaft (53) being provided with a greater number of cam lobes (78) than the exhaust camshaft (63) for operating a greater number of intake valves (27,28,29) than exhaust valves (36,37) wherein the camshaft bearings (49,52,59;62,68) are disposed between the cam lobes (78,96) operating the intake and exhaust valves (27,28,29;36,37) of one cylinder of the engine (21).

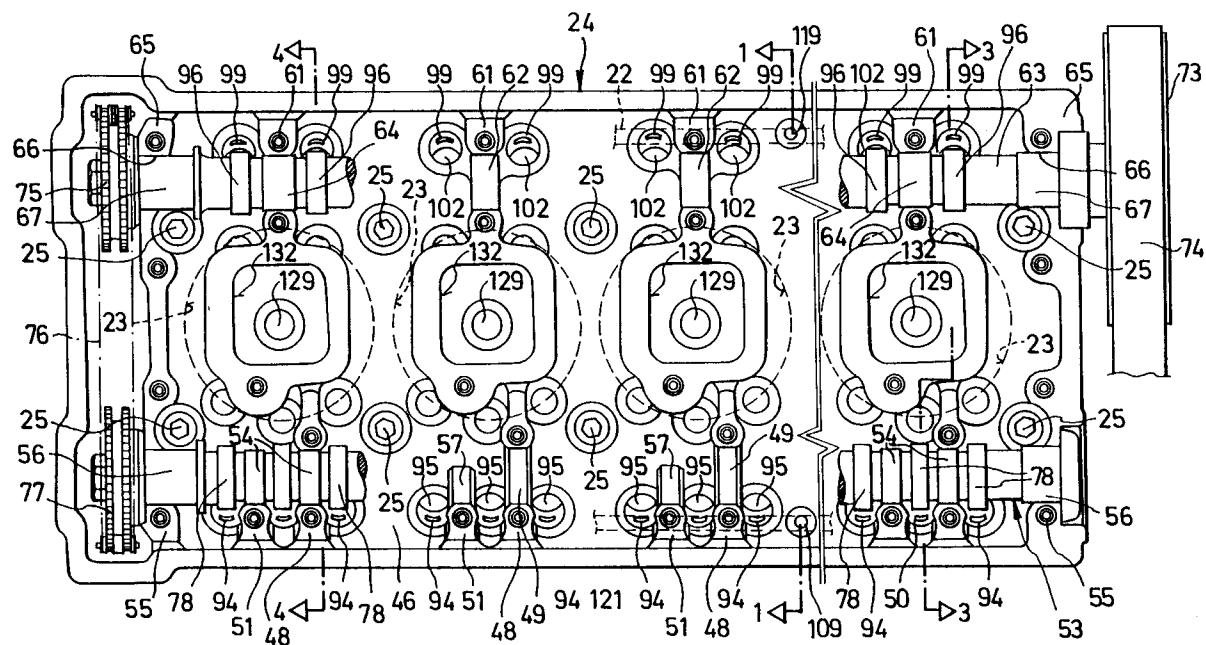


FIG.5



European Patent
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EUROPEAN SEARCH REPORT

Application Number
EP 95 10 1503

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)
E	EP-A-0 408 080 (YAMAHA MOTOR CO LTD) 16 January 1991 * column 3, line 25 - column 8, line 43; figures * ---	1-6	F01M9/10 F02F1/24 F01L1/26
X, P	GB-A-2 224 313 (FUJI HEAVY IND LTD) 2 May 1990 * page 3, line 28 - page 12, line 2; figures * ---	1	
E	EP-A-0 408 079 (YAMAHA MOTOR CO LTD) 16 January 1991 * column 3, line 23 - column 7, line 56; figures * ---	1,2	
E	EP-A-0 420 139 (MAZDA MOTOR) 3 April 1991 * column 4, line 17 - column 12, line 55 * ---	1	
A, P	GB-A-2 216 187 (NISSAN MOTOR) 4 October 1989 * page 4, line 17 - page 10, line 3; figures * ---	1	TECHNICAL FIELDS SEARCHED (Int.Cl.5)
A	EP-A-0 212 981 (HONDA MOTOR CO LTD) 4 March 1987 ---		F01L F01M
A	FR-A-2 552 820 (HONDA) ---		
A	US-A-4 709 667 (ICHIHARA) -----		
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	21 April 1995	Mouton, J	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone	T : theory or principle underlying the invention		
Y : particularly relevant if combined with another document of the same category	E : earlier patent document, but published on, or after the filing date		
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