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(54) **V-type internal combustion engine for motorcycle**

(57) Object: To provide a V-type internal combustion engine for a motorcycle, having a front bank and a rear bank, which is capable of compactly forming a rear portion of a crank case and a mission case portion continuous thereto without any interference with a lubricating oil pump and a cooling water pump.

Solving Means: A lubricating oil pump 57 for sup-

plying oil to portions to be lubricated of a front bank 4₁ and a rear bank 4₂, and a cooling water pump 62 for supplying cooling water to water jackets 24₁ and 24₂ of the front and rear banks 4₁ and 4₂ are provided in a crank case 21 in such a manner as to be laterally disposed in front of and over a crank shaft 15.

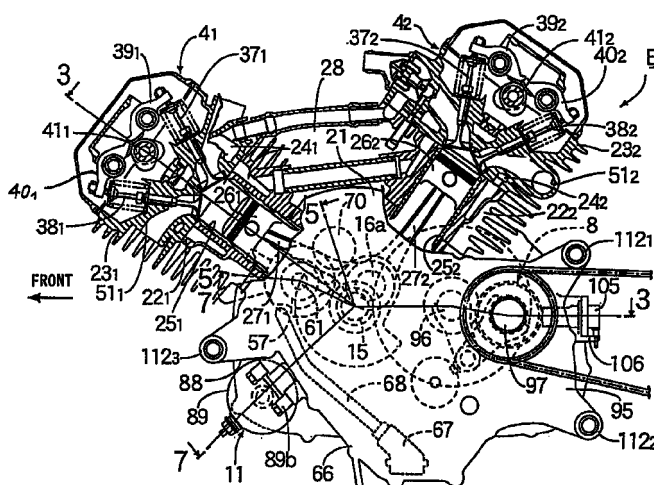


FIG. 2

EP 0 987 416 A3



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EUROPEAN SEARCH REPORT

Application Number
EP 99 11 7155

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)
A	US 4 903 483 A (ATSUUMI MAMORU ET AL) 27 February 1990 (1990-02-27) * column 2, line 50 - column 5, line 34; figures *	1,3,4	F02B75/22 F02B61/02
A	US 4 497 293 A (TAKAGI MASATOSHI ET AL) 5 February 1985 (1985-02-05) * column 3, line 20 - line 52; figures 6-9 *	1,2	
A	US 4 960 081 A (ATSUUMI MAMORU) 2 October 1990 (1990-10-02) * column 5, line 17 - line 32; figures 2-7 *	3,4	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			F02B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 25 October 2000	Examiner von Arx, H
CATEGORY OF CITED DOCUMENTS 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 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			

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

EP 99 11 7155

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