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(54) **Arrangement of electrical devices on a motorcycle**

(57) The present invention concerns an engine 10 having a crankcase (15) extending in the longitudinal direction of a vehicle body, a cylinder (16) located before the crankcase and extending almost upward, a cylinder head (17) located above the cylinder, and an AC generator (30) built in the crankcase (15) characterized in that a regulator (24) for regulating output voltage of the AC

generator (30) is held behind the cylinder (16) and on the top surface of the crankcase (15) through an electrical device mounting stay (26). Advantageously, the electrical device mounting stay (26) is fitted through heat-insulating rubber and a first capacitor (25a) and a second capacitor (25b) which substitute for a battery are also fitted through heat-insulating rubber to the electrical device mounting stay (26).

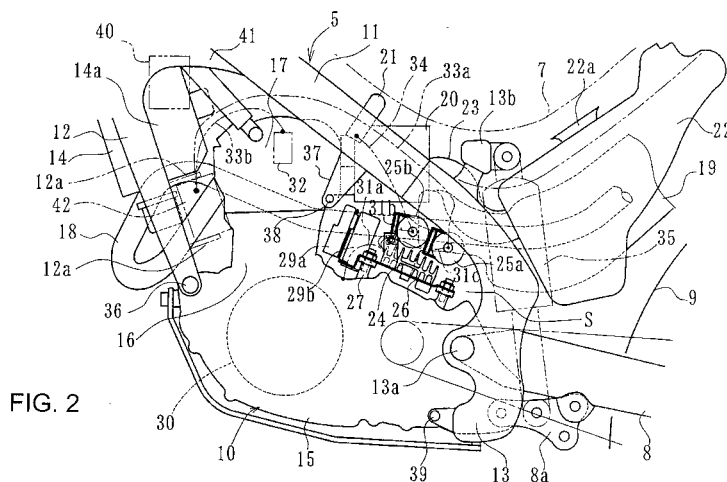


FIG. 2



EUROPEAN SEARCH REPORT

Application Number
EP 05 10 0805

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,P	EP 1 491 762 A2 (HONDA MOTOR CO LTD [JP]) 29 December 2004 (2004-12-29) * paragraph [0070]; figure 3 *	1-7	INV. F02B63/02 F02B63/04 F02M35/16 F02M35/10
A	JP 11 129958 A (SUZUKI MOTOR CO) 18 May 1999 (1999-05-18) * the whole document *	1-7	
A	EP 1 186 771 A2 (HONDA MOTOR CO LTD [JP]) 13 March 2002 (2002-03-13) * paragraph [0015]; figures 1-4 *	1-7	
A	US 2002/027032 A1 (TSUTSUMIKOSHI SHINOBU [JP]) 7 March 2002 (2002-03-07) * paragraph [0073]; figures 1-5 *	1-7	
			TECHNICAL FIELDS SEARCHED (IPC)
			F02B F02D F02M
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		27 June 2011	Raposo, Jorge
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 05 10 0805

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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27-06-2011

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1491762	A2	29-12-2004	US 2004255909 A1	23-12-2004
JP 11129958	A	18-05-1999	JP 3552498 B2	11-08-2004
EP 1186771	A2	13-03-2002	CN 1342583 A	03-04-2002
			DE 60108453 D1	24-02-2005
			DE 60108453 T2	23-06-2005
			ES 2236095 T3	16-07-2005
			JP 3836665 B2	25-10-2006
			JP 2002081353 A	22-03-2002
			TW 592256 U	11-06-2004
			US 2002027033 A1	07-03-2002
US 2002027032	A1	07-03-2002	DE 10143503 A1	27-06-2002
			IT RM20010537 A1	06-03-2003
			JP 3867486 B2	10-01-2007
			JP 2002079982 A	19-03-2002