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(54) **A generator set**

(57) A generator set (1) comprises an endothermic engine (2) with its own drive shaft (3), an electrical generator (4) connected to said drive shaft (3) and coaxial to the endothermic engine (2), a fan (7) keyed on the drive shaft (3) and co-operating with a case (8) to define a cooling block (9) conveying cool air axially on the electrical generator (4) and on a head of the endothermic engine (2), a sound-proofing enclosure (10) containing the endothermic engine (2), the electrical generator (4) and the cooling block (9), a supplementary fan (11) keyed

on the drive shaft (3) and positioned internally to the sound-proofing enclosure (10) and externally to said case (8), a conduit (12) positioned internally to the sound-proofing enclosure and co-operating with said supplementary fan (11) to convey a flow of cool air into an air filter (13) of the endothermic engine (2).

Known sound-proofed direct-transmission generator sets have limited performance, because they are not provided with any system for cooling of the air filter or of the outer surface of the endothermic engine.

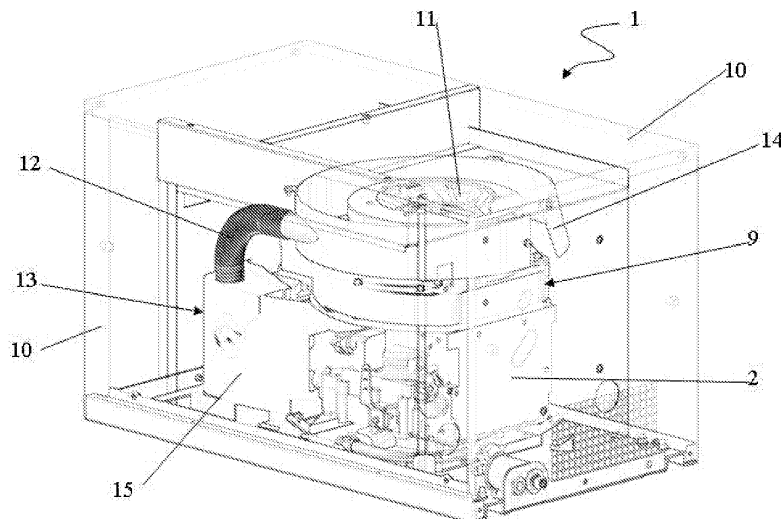


FIG. 1

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EUROPEAN SEARCH REPORT

Application Number
EP 07 11 3390

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	US 5 624 589 A (LATVIS STEVEN D [US] ET AL) 29 April 1997 (1997-04-29) * column 4, line 24 - column 5, line 11 * * column 5, lines 30-52 * * figure 4 *	1-8	INV. F02B63/04 F02M35/06 F02M35/10 F01P5/06
Y	JP 02 155447 A (KUBOTA LTD) 14 June 1990 (1990-06-14) * abstract * * figures *	1,3-5, 7-8	
Y	US 4 835 405 A (CLANCEY STEPHEN M [US] ET AL) 30 May 1989 (1989-05-30) * column 8, line 23 - column 9, line 37 * * column 15, lines 33-62 * * figures 2, 4 *	1,3-5, 7-8	
A	JP 56 117026 U (-) 8 September 1981 (1981-09-08) * figures *	1-8	
A	DE 10 2004 047855 A1 (DAIMLER CHRYSLER AG [DE]) 20 April 2006 (2006-04-20) * figures *	1-8	TECHNICAL FIELDS SEARCHED (IPC) F02M F01P
A	US 2004/060525 A1 (MAIER GEORGE [DE] ET AL MAIER GEORG [DE] ET AL) 1 April 2004 (2004-04-01) * paragraph [0005] * * figures *	1-8	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 28 January 2010	Examiner Matray, J
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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EPO FORM 1503.03.82 (P04G01)

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

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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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28-01-2010

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5624589 A	29-04-1997	NONE	
JP 2155447 A	14-06-1990	NONE	
US 4835405 A	30-05-1989	CA 1298339 C	31-03-1992
JP 56117026 U	08-09-1981	NONE	
DE 102004047855 A1	20-04-2006	NONE	
US 2004060525 A1	01-04-2004	CN 1497186 A DE 10245418 A1 FR 2845122 A1	19-05-2004 03-06-2004 02-04-2004