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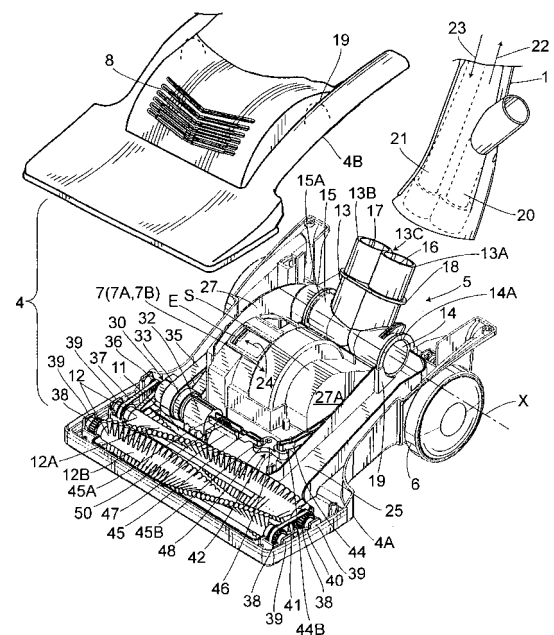
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(54) **Electric vacuum cleaner**

(57) An electric vacuum cleaner comprises a vertical type cleaner body (1) provided with a dust collection chamber (9) a handle (2) protrusively provided on an upper portion of the cleaner body (1), a suction nozzle (4) provided on an lower portion of the cleaner body (1) in such a manner as to communicate with the dust collection chamber (9) being rotatable back and forth with respect to the cleaner body (1) and being contactable with a surface to be cleaned, an electric fan (7) provided in the suction nozzle (4), and a rotary brush (12) which is rotated by the electric fan (7) and is built in the suction nozzle (4). A clutch mechanism (32) which transmits and interrupts power to the rotary brush (12) is provided between the rotary brush (12) and the electric fan (7). The suction nozzle (4) is rotatably provided on the cleaner body (1) via a hinge mechanism (5). The clutch mechanism (32) is coupled to the hinge mechanism (5) by a link mechanism (42).

FIG.3





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EUROPEAN SEARCH REPORT

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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	GB 2 271 275 A (VAX LTD [GB]) 13 April 1994 (1994-04-13) * page 1, line 1 - page 4, line 18 * -----	1-7	INV. A47L5/30
X	US 5 839 160 A (WANG CHIEH-CHUN [TW] ET AL) 24 November 1998 (1998-11-24) * column 2, line 22 - column 3, line 51 * -----	1,2,5-7	
X	GB 2 336 993 A (HOOVER CO [US]) 10 November 1999 (1999-11-10) * page 8, line 4 - page 9, line 23 * -----	1,2	
X	US 2 601 698 A (HUMPHREY WARREN A) 1 July 1952 (1952-07-01) * the whole document * -----	1,2	
			TECHNICAL FIELDS SEARCHED (IPC)
			A47L
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 9 October 2007	Examiner MARTIN GONZALEZ, G
<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>			

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**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.
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09-10-2007

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 2271275 A	13-04-1994	AU 4890993 A CA 2107832 A1	21-04-1994 09-04-1994
US 5839160 A	24-11-1998	GB 2335589 A	29-09-1999
GB 2336993 A	10-11-1999	CA 2265406 A1 US 5974622 A	08-11-1999 02-11-1999
US 2601698 A	01-07-1952	NONE	