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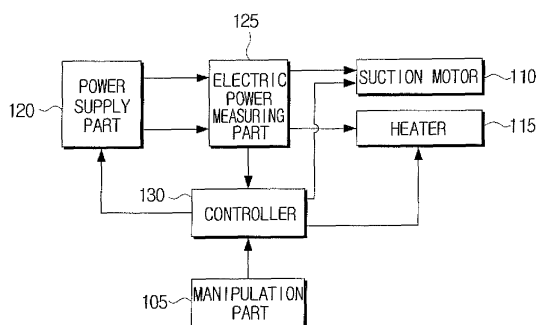
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(54) **Steam-vacuum cleaner with electric power controlling function and method thereof**

(57) A steam-vacuum cleaner with an electric power controlling function and a method thereof are provided. The steam-vacuum cleaner includes a suction motor which rotates to generate a suction force; a heater which emits heat to generate a steam; a power supply part which supplies an electric power to the suction motor and the heater; an electric power measuring part which measure a total electric power supplied from the power supplier and consumed in the suction motor and the heater; and a controller which controls at least one of a rotational velocity of the suction motor and a magnitude of heat emitted from the heater such that the total electric power of the suction motor and the heater is maintained less than a threshold value. Accordingly, steam and vacuum cleaning functions are simultaneously performed within

the limit of power capacity of a wire.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
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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)
Y	US 2004/111822 A1 (SYU WEN-CAI [TW]) 17 June 2004 (2004-06-17) * paragraph [0016] - paragraph [0032]; figures 1-7 *	1-10	INV. A47L9/28 A47L11/34
Y	US 2005/120504 A1 (TONDRA AARON P [US] ET AL) 9 June 2005 (2005-06-09) * paragraph [0016] *	1-10	
A	US 5 555 595 A (LIGMAN JAMES R [US]) 17 September 1996 (1996-09-17) * column 3, line 11 - column 4, line 51; claims 1-12; figures 1-5 *	1-10	
A	US 4 357 729 A (VANDER MOLEN DONALD R ET AL) 9 November 1982 (1982-11-09) * abstract * * column 2, line 56 - column 3, line 18; figures 1-8 *	1-10	
A	GB 1 286 985 A (STEAM VACUUM EXTRACTION LTD [GB]) 31 August 1972 (1972-08-31) * page 4, line 73 - line 88; figures 1-10 *	1-10	
A	GB 2 416 678 A (BISSELL HOMECARE INC [US]) 8 February 2006 (2006-02-08) * page 9, line 20 - line 24; figures 1-32 *	1-10	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 5 July 2010	Examiner Hubrich, Klaus
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 08 10 2586

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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05-07-2010

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2004111822	A1	17-06-2004	NONE		

US 2005120504	A1	09-06-2005	NONE		

US 5555595	A	17-09-1996	NONE		

US 4357729	A	09-11-1982	CA	1164075 A1	20-03-1984

GB 1286985	A	31-08-1972	DE	2047625 A1	03-06-1971

GB 2416678	A	08-02-2006	GB	2444662 A	11-06-2008
			GB	2444864 A	18-06-2008
