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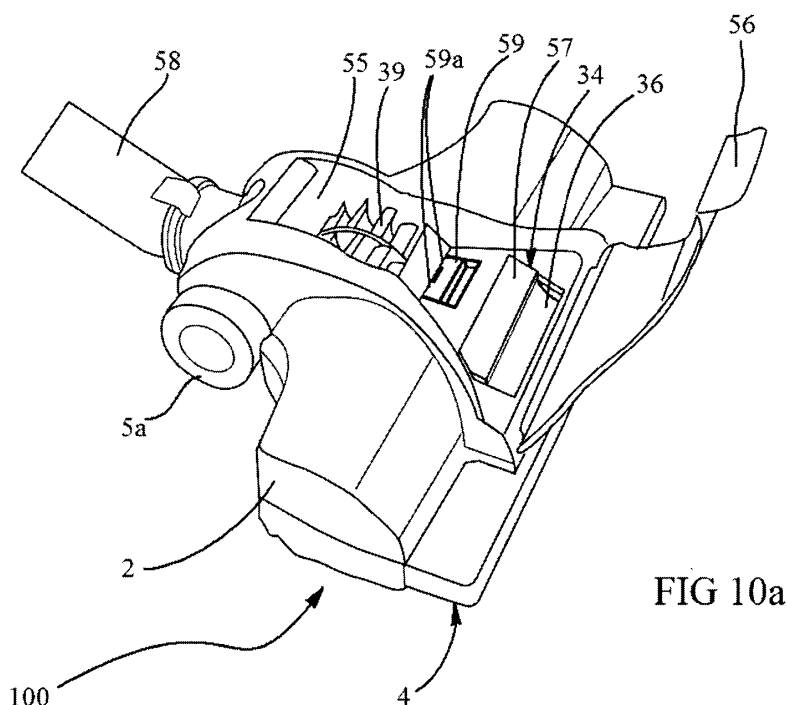
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(54) **Multifunctional cleaning device**

(57) A multifunctional cleaning machine comprises a handle (7) having a first end (7a) provided with a handgrip (8), a base (2) fastened to a second end (7b) of the handle (7) and provided with at least one main suction opening (4), suction means (9) in fluid communication with the main suction opening (4), a steam-producing boiler (15) positioned in the base (2) and connected with at least

one aperture (16) placed on the active portion (3). An auxiliary suction opening (33) positioned within the base (2) operates on a rotating brush (30) mounted close to the main suction opening (4). A selective-closure device (34) operates along a common suction duct (55) terminating at the main suction opening (4) and the auxiliary suction opening (33).



**FIG 10a**



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# EUROPEAN SEARCH REPORT

Application Number  
EP 05 10 4302

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 5 293 665 A (WOERWAG ET AL) 15 March 1994 (1994-03-15) * column 6, lines 17-46; figure 5 *	1	INV. A47L11/34 A47L5/30 A47L1/02 A47L9/00 A47L9/04
Y	-----	2,3	
X	EP 1 325 703 A (SHARP KABUSHIKI KAISHA) 9 July 2003 (2003-07-09) * paragraphs [0047] - [0075]; figures 13-24 *	1	
Y	-----	2,3	
A	US 2001/011404 A1 (ROSCHI ERMES ET AL) 9 August 2001 (2001-08-09) * paragraphs [0054] - [0057]; figures 1,2,4 *		
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A	GB 2 388 306 A (* SAMSUNG GWANGJU ELECTRONICS CO LTD) 12 November 2003 (2003-11-12) * page 6, lines 6-11 * * page 12, lines 13-20 * * page 15, lines 10-13; figure 6 *		TECHNICAL FIELDS SEARCHED (IPC)
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<p><del>The present search report has been drawn up for all claims</del></p>			
Place of search		Date of completion of the search	Examiner
Munich		10 October 2006	PAPADIMITRIOU, S
<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 ..... &amp; : member of the same patent family, corresponding document</p>			

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EPO FORM 1503 03.82 (P04C01)



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Application Number  
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#### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

#### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1, 2, 3



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1,2,3

provision of a means for cleaning the brush of a  
multifunctional cleaning device.

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2. claims: 1,4-6

provision of a rotating brush drive means of a  
multifunctional cleaning device.

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3. claims: 7-14

a multifunctional cleaning device with means for applying a  
cleaning liquid to a surface to be treated.

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

EP 05 10 4302

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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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