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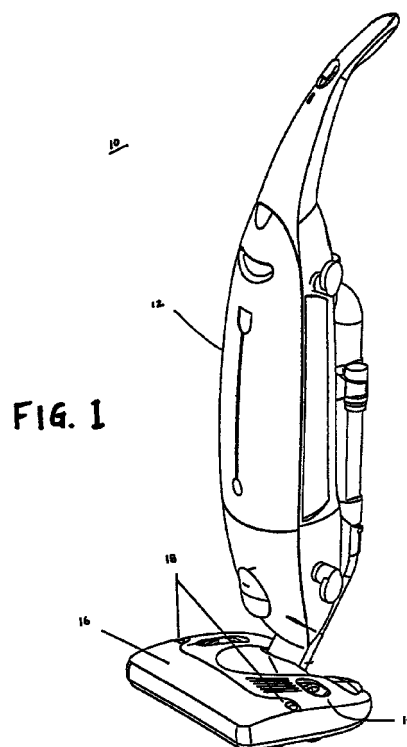
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(54) **Vacuum cleaner having top access brush panel**

(57) An access panel (16) mounted atop a vacuum nozzle base (14) via finger operated latches (18). When the latches (18) are undone the access panel (16) is removed from the top surface of the nozzle base (14) allowing access to the parts of the brush assembly (28). The panel (16) also has an integral arm (20) which engages a safety motor switch (22) such that when the panel (16) is removed the motor switch (22) is switched into an open circuit position preventing the motor from continued operation.



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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 (Int.Cl.6)
X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 560 (C-1008), 2 December 1992 -& JP 04 218128 A (SANYO ELECTRIC CO LTD), 7 August 1992 * abstract; figures *	1-9	A47L5/30 A47L9/04 A47L9/28
X	US 5 659 919 A (KAJIHARA S) 26 August 1997 * abstract * * column 6, line 33 - line 56 * * figures 4,5,10 *	1,2,5-9	
X	PATENT ABSTRACTS OF JAPAN vol. 014, no. 363 (C-0746), 7 August 1990 -& JP 02 131729 A (MATSUSHITA ELECTRIC IND CO LTD), 21 May 1990 * abstract; figures *	1,5,7	
A		8	
X	EP 0 590 690 A (HITACHI LTD) 6 April 1994 * column 6, line 39 - line 47 * * column 7, line 48 - column 8, line 9 * * figures 1,5,6,11 *	1,5,7	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
A		8	A47L
X	EP 0 383 012 A (PROGRESS ELEKTROGERÄTE GMBH) 22 August 1990 * abstract * * column 4, line 6 - line 57 * * figures 1-6 *	1,5,7	
A		8	
X	US 4 980 945 A (BEWLEY W C) 1 January 1991 * abstract * * column 2, line 1 - line 53 * * column 4, line 56 - column 5, line 39 * * figures 1,3-7 *	1,5,7	
A		8	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 31 May 1999	Examiner Cabral Matos, A
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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EUROPEAN SEARCH REPORT

Application Number
EP 98 11 9338

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
P,X	PATENT ABSTRACTS OF JAPAN vol. 098, no. 010, 31 August 1998 & JP 10 127542 A (HITACHI LTD), 19 May 1998 * abstract *	1,5,7	
A	---	8	
A	PATENT ABSTRACTS OF JAPAN vol. 095, no. 004, 31 May 1995 -& JP 07 008422 A (SHARP CORP), 13 January 1995 * abstract * -----	1-9	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
Place of search THE HAGUE		Date of completion of the search 31 May 1999	Examiner Cabral Matos, A
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			

EPO FORM 1503 03 82 (P04C01)

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ON EUROPEAN PATENT APPLICATION NO.**

EP 98 11 9338

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31-05-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5659919 A	26-08-1997	JP 8066338 A	12-03-1996
		GB 2292673 A,B	06-03-1996
		KR 139120 B	15-05-1998
EP 0590690 A	06-04-1994	JP 1268526 A	26-10-1989
		JP 1832104 C	29-03-1994
		JP 1268527 A	26-10-1989
		JP 2514688 B	10-07-1996
		CN 1037829 A,B	13-12-1989
		CN 1061711 A,B	10-06-1992
		DE 68916578 D	11-08-1994
		DE 68916578 T	20-10-1994
		DE 68927501 D	09-01-1997
		DE 68927501 T	27-03-1997
		EP 0338513 A	25-10-1989
		KR 9614808 B	21-10-1996
		KR 9614809 B	21-10-1996
		US 5054156 A	08-10-1991
EP 0383012 A	22-08-1990	DE 3904396 A	16-08-1990
		AU 621979 B	26-03-1992
		AU 4883490 A	23-08-1990
		CA 2009696 A	14-08-1990
		JP 2252424 A	11-10-1990
		US 5063634 A	12-11-1991
US 4980945 A	01-01-1991	CA 2030629 A,C	28-05-1991