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(30) Priority: **28.04.2004 US 409412**

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(54) Apparatus for vacuum and/or blowing of debris

(57) Vacuum and blowing apparatus is provided having means for selecting between a first vacuum mode and a second blowing mode. A base portion of the apparatus is in contact with a surface from which debris is

to be collected and/or across or relative to which debris is to be blown in use and, depending from the base portion, a body portion of the apparatus supports a collection box for the reception of debris collected from the surface.

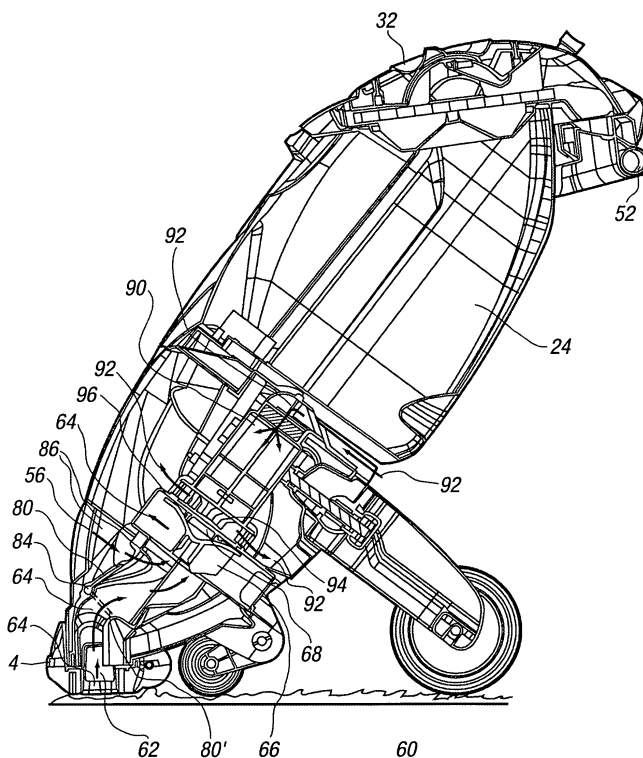


FIG. 2

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EUROPEAN SEARCH REPORT

Application Number
EP 05 25 1664

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 5 294 063 A (BOTE ET AL) 15 March 1994 (1994-03-15) * column 7, line 46 - line 64; figure 11 *	1-6, 8, 14, 15, 29-32	A47L5/14
X	US 6 245 159 B1 (DENG DAVID) 12 June 2001 (2001-06-12) * column 4, line 1 - line 63; figures 1-4B *	1-6, 8, 29, 30	
X	US 4 644 606 A (LUERKEN ET AL) 24 February 1987 (1987-02-24) * column 2, line 36 - column 4, line 63; figures 1, 2, 4 *	1, 6, 8, 14, 15, 29-32	
X	US 4 663 799 A (KIYOOKA ET AL) 12 May 1987 (1987-05-12) * column 1, line 50 - line 62 * * column 2, line 28 - line 68; figures 5, 6 *	1, 15-18, 26	
X	US 4 817 230 A (KIYOOKA ET AL) 4 April 1989 (1989-04-04) * column 1, line 59 - column 2, line 7 * * column 2, line 43 - line 65; figure 5 *	1, 15, 16, 18 17	TECHNICAL FIELDS SEARCHED (IPC) A01D A47L
A			
X	GB 2 304 549 A (* BLACK & DECKER INC) 26 March 1997 (1997-03-26) * page 7, line 149 - page 8, line 168; figure 2 *	1, 15, 16, 18 17	
A			
X	GB 2 311 462 A (* BLACK & DECKER INC) 1 October 1997 (1997-10-01) * page 6, line 20 - line 21; figure 1 * * page 7, line 24 - page 8, line 12; figure 1 *	1, 15, 16, 18, 26 17	
A			
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 26 October 2005	Examiner Bordeaux, J
<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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EPO FORM 1503 03.82 (P04C01)



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EUROPEAN SEARCH REPORT

Application Number
EP 05 25 1664

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 5 243 733 A (STEINER ET AL) 14 September 1993 (1993-09-14) * column 7, line 8 - line 57; figures 1,4-17 * -----	1,15,26	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 26 October 2005	Examiner Bordeux, 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 (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:
1-6, 8, 14-18, 26-32
- ☐ 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:



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: 1-6,8,14,15,27-32

Apparatus which can be used in vacuum mode and/or in a blower mode, comprising wheels mounted on arms to allow the selection of the height of the base portion from the surface to be cleaned of debris

2. claim: 7

Apparatus which can be used in vacuum mode and/or in a blower mode, wherein the fan unit is provided so as to allow the debris which passes in the air flow to be shredded

3. claims: 9-13

Apparatus which can be used in vacuum mode and/or in a blower mode, comprising filter means to prevent or minimize the dust particles leaving the collection box

4. claims: 16-18

Apparatus which can be used in vacuum mode and/or in a blower mode, comprising selection means to allow a user to select between a vacuum mode or a blower mode, said selection means including flap means

5. claim: 19

Apparatus which can be used in vacuum mode and/or in a blower mode, wherein a further airflow system is provided to provide a cooling effect to the motor

6. claims: 20,21

Apparatus which can be used in vacuum mode and/or in a blower mode, including a sealing layer

7. claim: 22

Apparatus which can be used in vacuum mode and/or in a blower mode, wherein one or more air flow apertures are provided with fingers

8. claims: 23-25



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**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
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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:

Apparatus which can be used in vacuum mode and/or in a
blower mode, comprising one or more different types of
collection heads

9. claim: 26

Apparatus which can be used in vacuum mode and/or in a
blower mode, comprising a rigid collection box

**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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26-10-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5294063	A	15-03-1994	NONE	
US 6245159	B1	12-06-2001	NONE	
US 4644606	A	24-02-1987	AU 576075 B2	11-08-1988
			AU 5571686 A	16-10-1986
			CA 1283514 C	30-04-1991
			DE 3677039 D1	28-02-1991
			EP 0198654 A1	22-10-1986
			JP 61283795 A	13-12-1986
US 4663799	A	12-05-1987	JP 1720255 C	14-12-1992
			JP 2002604 B	18-01-1990
			JP 61171519 A	02-08-1986
US 4817230	A	04-04-1989	AU 567821 B2	03-12-1987
			AU 4478385 A	16-01-1986
			JP 61022826 A	31-01-1986
GB 2304549	A	26-03-1997	NONE	
GB 2311462	A	01-10-1997	NONE	
US 5243733	A	14-09-1993	CA 2087558 A1	09-03-1994