

(19)



(11)

EP 1 707 678 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
26.03.2008 Bulletin 2008/13

(51) Int Cl.:
E01H 1/08 (2006.01)

(43) Date of publication A2:
04.10.2006 Bulletin 2006/40

(21) Application number: **06005728.8**

(22) Date of filing: **21.03.2006**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR
Designated Extension States:
AL BA HR MK YU

(72) Inventor: **Saliola, Anna,**
S.A.M. Salute Ambientale S.R.L
43013 Langhirano (Parma) (IT)

(74) Representative: **Guareschi, Antonella**
c/o Ing. Dallaglio S.r.l.
Viale Mentana 92/C
43100 Parma (IT)

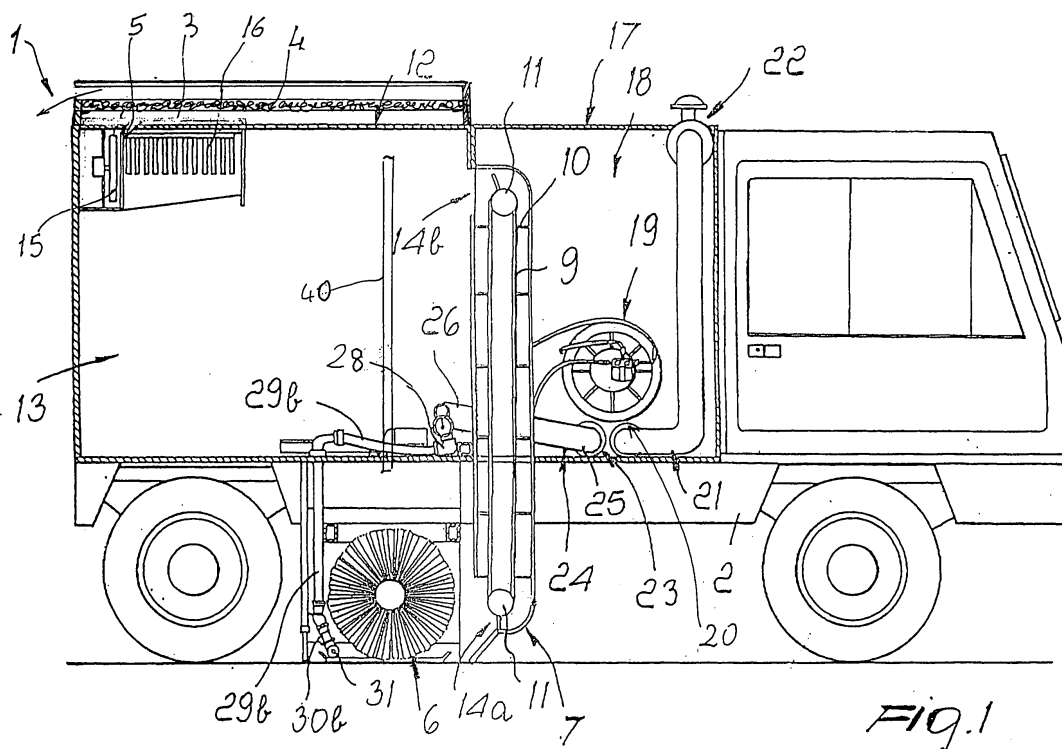
(30) Priority: **30.03.2005 IT PR20050012**

(71) Applicant: **S.A.M. Salute Ambientale S.R.L.**
43013 Langhirano PR (IT)

(54) Street sweeper having a mechanical vacuum filter system for refuse collection

(57) The invention is applicable in the field of street sweepers and particularly those sweepers having a mechanical vacuum filter system for collecting refuse in a hopper. Namely, the sweeper has a vacuum system com-

prising a combination of air blowing means located behind a cylindrical rotating brush against the ground and all along the brush, and a fine particulate filter PM10 and PM2.5 through which the intake air is conveyed into a refuse receiving hopper.



EP 1 707 678 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 06 00 5728

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 2005/060834 A1 (STRAUSER DANIEL P [US]) 24 March 2005 (2005-03-24) * paragraph [0073] * * paragraph [0077] * * paragraph [0105] - paragraph [0106]; figures *	1-5	INV. E01H1/08
Y	US 6 154 922 A (VANDERLINDEN ROGER P [CA]) 5 December 2000 (2000-12-05) * column 4, line 39 - column 6, line 12; figures *	1-5	
A	US 4 310 944 A (KROLL HARLEY E ET AL) 19 January 1982 (1982-01-19) * column 5, line 57 - column 7, line 45; figures 3,4 *	1-5	
A	FR 2 685 366 A (NICOLAS [FR]) 25 June 1993 (1993-06-25) * page 4, line 17 - line 27; figures *	1,3	
A	US 6 195 837 B1 (VANDERLINDEN ROGER P [CA]) 6 March 2001 (2001-03-06) * column 5, line 27 - column 6, line 41; figures 1-3 *	1,5	TECHNICAL FIELDS SEARCHED (IPC) E01H
A	US 4 754 521 A (ZONI SERGIO [IT]) 5 July 1988 (1988-07-05) * the whole document *	1	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 20 February 2008	Examiner Movadat, Robin
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			

5

EPO FORM 1503 03 82 (P04C01)

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

EP 06 00 5728

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.

20-02-2008

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2005060834	A1	24-03-2005	NONE		
US 6154922	A	05-12-2000	US	6195836 B1	06-03-2001
US 4310944	A	19-01-1982	NONE		
FR 2685366	A	25-06-1993	NONE		
US 6195837	B1	06-03-2001	CA	2299654 A1	22-08-2000
US 4754521	A	05-07-1988	IT	1195887 B	27-10-1988