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EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
11.12.2002 Bulletin 2002/50

(51) Int Cl.7: A47L 11/24, A47L 11/40,  
E01H 1/05

(43) Date of publication A2:  
07.11.2001 Bulletin 2001/45

(21) Application number: 01201456.9

(22) Date of filing: 23.04.2001

<div>(84) Designated Contracting States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR Designated Extension States: AL LT LV MK RO SI</div> <div>(30) Priority: 02.05.2000 IT RE200035</div> <div>(71) Applicant: Interpump Engineering S.r.l. 42100 Reggio Emilia (IT)</div>	<div>(72) Inventor: Montipo, Fulvio, Interpump Engineering S.R.L. 42100 Reggio Emilia (IT)</div> <div>(74) Representative: Corradini, Corrado et al Studio Ing. C. CORRADINI &amp; C. S.r.l. 4, Via Dante Alighieri 42100 Reggio Emilia (IT)</div>
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Improved motor sweeper

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A motor sweeper comprising a frame (10) below which there are provided at least one rotatable front lateral conical brush (1) able to swing about a vertical axis, a steerable wheel (2) to the rear thereof connected to steering control means, a rearward-lying transverse horizontal cylindrical brush, two drive wheels to the rear thereof, and a rear dirt collection bin, said at least one conical brush being maintained in its working position by an elastic means (120), in which between the machine steering unit and the support structure for said at least one conical brush (1) there is interposed a member (62) which is normally insensitive to the operating position of the steering control means, but which, when the machine confronts a curve involving a steering angle exceeding a predetermined value, causes that lateral brush situated on the outside of the curve to swing inwards.

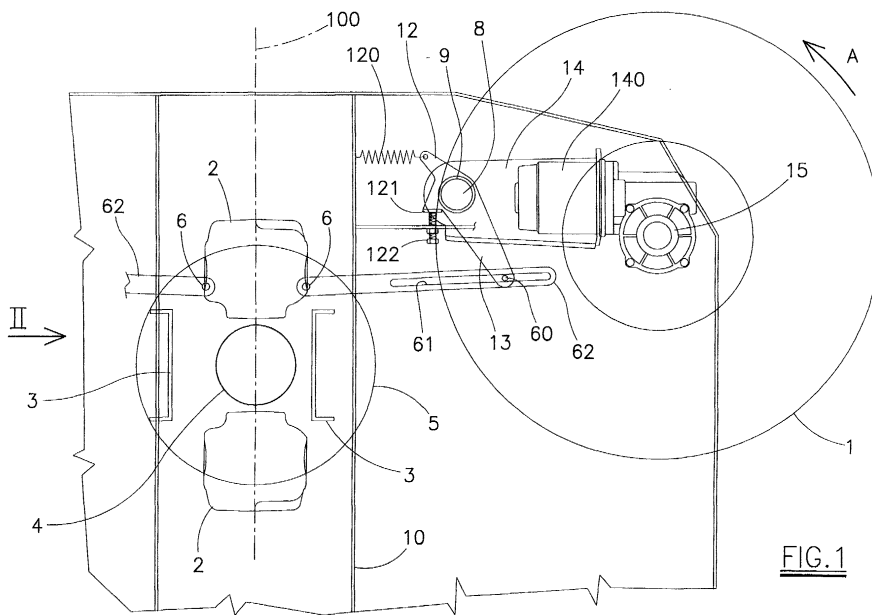


FIG.1



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 01 20 1456

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.7)
A	EP 0 951 857 A (UNILEVER PLC ;UNILEVER NV (NL)) 27 October 1999 (1999-10-27) * the whole document *	1	A47L11/24 A47L11/40 E01H1/05
A	US 5 687 443 A (MOORE TERRY D) 18 November 1997 (1997-11-18) * the whole document *	1	
A	DE 299 18 769 U (STOLZENBERG GMBH) 23 December 1999 (1999-12-23) * page 2, line 1-14 * * page 3, line 1 - page 6, line 13; figure 3 *	1,7	
A	DE 298 11 280 U (WIEDENMANN GMBH) 29 October 1998 (1998-10-29) * page 6, line 1-13; figures 1-6 *	1,7	
A	US 4 335 482 A (JONES PETER A) 22 June 1982 (1982-06-22) * column 1, line 37 - column 2, line 59; figure 1 *	1,7	
A	DE 43 35 846 A (WIEDENMANN GMBH) 27 April 1995 (1995-04-27) * column 4, line 30 - column 6, line 19; figures 1-3 *	1,7	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			A47L E01H
Place of search		Date of completion of the search	Examiner
MUNICH		15 October 2002	Laue, F
CATEGORY OF CITED DOCUMENTS			
<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>			

EPO FORM 1503 03.82 (P04C01)

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

EP 01 20 1456

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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15-10-2002

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0951857	A	27-10-1999	EP	0951857 A1	27-10-1999
			US	6212731 B1	10-04-2001
-----					
US 5687443	A	18-11-1997	CA	2181226 A1	19-02-1997
-----					
DE 29918769	U	23-12-1999	DE	29918769 U1	23-12-1999
-----					
DE 29811280	U	29-10-1998	DE	29811280 U1	29-10-1998
-----					
US 4335482	A	22-06-1982	AT	9366 T	15-09-1984
			DE	3069147 D1	18-10-1984
			EP	0021784 A1	07-01-1981
-----					
DE 4335846	A	27-04-1995	DE	4335846 A1	27-04-1995
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