



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



Publication number:

**0 343 129 A3**

(12)

## EUROPEAN PATENT APPLICATION

(21) Application number: **89830224.5**

(51) Int. Cl.<sup>5</sup>: **A47L 11/30**

(22) Date of filing: **18.05.89**

(30) Priority: **20.05.88 IT 1163888 U**

(43) Date of publication of application:  
**23.11.89 Bulletin 89/47**

(84) Designated Contracting States:  
**AT BE CH DE ES FR GB LI NL SE**

(88) Date of deferred publication of the search report:  
**13.03.91 Bulletin 91/11**

(71) Applicant: **Scaringi, Felice**

**19, Via Vernalese  
I-50012 Bagno A Ripoli (Firenze)(IT)**

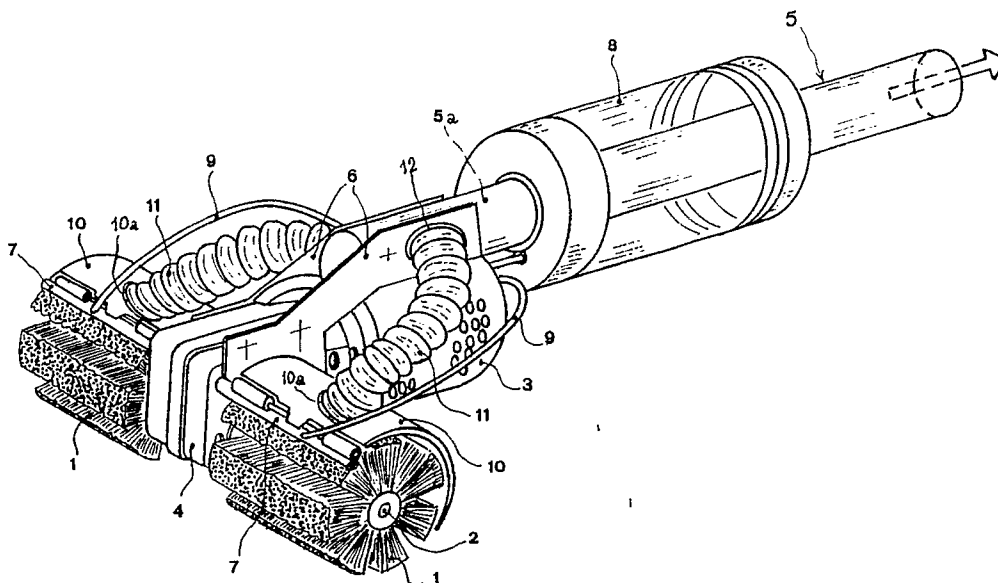
(72) Inventor: **Scaringi, Felice**  
**19, Via Vernalese  
I-50012 Bagno A Ripoli (Firenze)(IT)**

(74) Representative: **Bardini, Marco Luigi et al**  
**c/o Società Italiana Brevetti S.p.A. Piazza di  
Pietra 39  
I-00186 Roma(IT)**

(54) **Device for cleaning surfaces, such as floor, with removal of the cleaning liquor.**

(57) A device for cleaning surfaces such as floors and the like comprising a tubular holder 5 at the end of which there are pivotally mounted two cleaning brushes (1) housed within relevant spray preventing cases (10), the brushes (1) rotating on an axis perpendicular to the holder (5) and being connected for rotation with a motor (3) integral with the holder (5).

In front of the brushes (1) there are provided means for distributing the detergent liquor. Suction openings (10a) are formed on the cases (10) and are connected through flexible hoses (11) to the interior (5a) of the tubular holder (5) which is in communication with a conventional suction device.



**EP 0 343 129 A3**



European  
Patent Office

## EUROPEAN SEARCH REPORT

Application Number

EP 89 83 0224

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.5)		
E	US-A-4 951 346 (C. SALMON) * column 6, line 4 - column 7, line 13; figures 1, 12 * - - - -	1-3	A 47 L 11/30		
X	EP-A-0 104 345 (MADSEN. G) * page 8, line 12 - page 21, line 21; figures * - - - -	1-3			
X	US-A-3 699 607 (F.E. PUTT) * column 3, lines 49 - 54; figures 1, 2 * - - - -	1,2			
E	DE-A-3 802 256 (ALFRED KAERCHER GMBH & CO) * the whole document * - - - -	1,2			
A	US-A-4 577 364 (P.G. DEMETRIADES) * column 1, line 59 - column 3, line 14; figures * - - - - -	1-3			
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)		
			A 47 L		
The present search report has been drawn up for all claims					
Place of search The Hague		Date of completion of search 07 January 91	Examiner VANMOL M.A.J.G.		
<table border="0"><tr><td><b>CATEGORY OF CITED DOCUMENTS</b> 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</td><td>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</td></tr></table>				<b>CATEGORY OF CITED DOCUMENTS</b> 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
<b>CATEGORY OF CITED DOCUMENTS</b> 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				