

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 852 928 A3

(12)

## EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
27.01.1999 Bulletin 1999/04

(51) Int. Cl.<sup>6</sup>: A47L 15/42

(43) Date of publication A2:  
15.07.1998 Bulletin 1998/29

(21) Application number: 97121799.7

(22) Date of filing: 11.12.1997

(84) Designated Contracting States:  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC  
NL PT SE

Designated Extension States:  
AL LT LV MK RO SI

(30) Priority: 16.12.1996 DE 19652235  
16.12.1996 DE 19652231  
16.12.1996 DE 19652233  
28.01.1997 DE 19702982

(71) Applicant: WHIRLPOOL CORPORATION  
Benton Harbor Michigan 49022 (US)

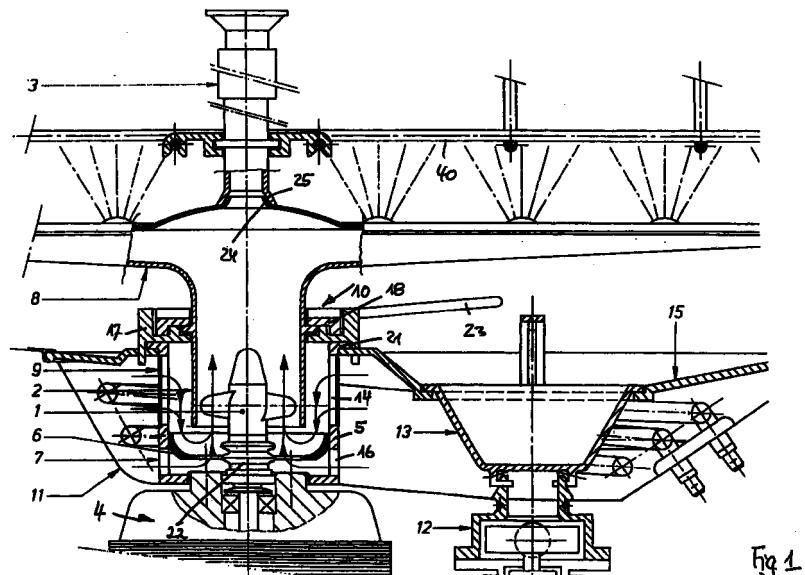
(72) Inventor: Jürgen, Rapke Harry  
V.1e G. Borghi 27, 21025 Comerio (IT)

(74) Representative:  
Guerci, Alessandro  
Whirlpool Europe S.r.l.  
Patent Department  
Viale G. Borghi 27  
21025 Comerio (VA) (IT)

### (54) Dishwashing machine with lower and upper spray arm and a circulating pump and wash liquor pump

(57) The invention relates to a dishwashing machine with a lower and an upper spray arm and a circulating pump (1) for circulating operation of the rinse water and a wash liquor pump (12) in the sump (11) in the bottom of the rinsing reservoir for the removal by suction of the rinse water in the suction operation. The

deposition of sludge in the sump of the rinsing reservoir and the subsequent removal by suction of the dirt particles with the rinse water is achieved by a depositing and suction area and a separate circulating area in the sump of the rinsing reservoir.



EP 0 852 928 A3



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number

EP 97 12 1799

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)						
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim							
A	EP 0 222 306 A (ZANUSSI ELETTRODOMESTICI) 20 May 1987 * abstract; figure 1 * ---	1	A47L15/42						
A	US 5 211 189 A (SANTAROSSA GIANNI) 18 May 1993 * column 2, line 13 - line 24; figure 1 * ---	1							
A	US 3 375 835 A (LOPP CHARLES R ET AL) 2 April 1968 * the whole document * ---	1							
A	GB 907 556 A (WASTE KING ) 10 October 1962 * page 3, line 83 - line 106; figure 2 * ---	1							
A	DE 15 28 747 B (LICENTIA) 24 September 1970 * the whole document * -----	1							
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)						
			A47L						
<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>27 November 1998</td> <td>Norman, P</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	THE HAGUE	27 November 1998	Norman, P
Place of search	Date of completion of the search	Examiner							
THE HAGUE	27 November 1998	Norman, P							
CATEGORY OF CITED DOCUMENTS		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							
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									