(11) **EP 2 052 663 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **24.06.2009 Bulletin 2009/26**

(51) Int Cl.: **A47L 15/23** (2006.01)

(43) Date of publication A2: 29.04.2009 Bulletin 2009/18

(21) Application number: 08167329.5

(22) Date of filing: 22.10.2008

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated Extension States:

AL BA MK RS

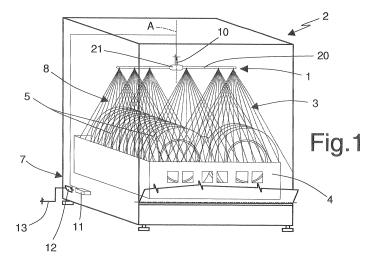
(30) Priority: 23.10.2007 IT TO20070753

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(54) Low-water-consumption rinsing and/or washing device, and dishwashing machine featuring such a device

(57) A rinsing and/or washing device (1) for an electric household appliance (2), consisting in an arm (20) rotationally mounted about a generally vertical axis (A) in a washing chamber (3) of the electric household appliance, e.g. immediately either over or under a container basket (4) of the dishes (5) to be washed, the arm delimiting a cavity (22) therein connected in use to delivering means (7) of a pressurized service fluid (8) and being provided with a plurality of spraying nozzles (23) arranged and oriented, in use, towards the dishes to be washed, reciprocally spaced in the direction of length of the arm and communicating with the internal cavity of the

latter; wherein opposite ends (25,26) of the arm radially and overhangingly extend, on opposite sides, from the rotation axis (A), this being preferably positioned at the middle line of the arm (20); and wherein the number, the size and the position of the nozzles (23b,23c) are chosen so that the flow rate (Q1-Q4) of the washing fluid delivered in use by the nozzles (23b,23c) along each concentric circumference (C1-C4) which the same trace about the rotation axis (A) of the arm during a complete rotation of the same is an increasing function, preferably in an essentially linear manner, of the radius (R1-R4) of the circumference itself.





EUROPEAN SEARCH REPORT

Application Number

EP 08 16 7329

	DOCUMENTS CONSIDERE	D TO BE RELEVANT		
Category	Citation of document with indicat of relevant passages	ion, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Υ	GB 2 019 204 A (LICENT 31 October 1979 (1979- * page 1, line 9 - pag figures *	10-31)	1-11	INV. A47L15/23
Υ	FR 2 406 373 A (LICENT 11 May 1979 (1979-05-1 * page 1, line 22 - pa figures *	1)	1-6	
Υ	EP 0 474 127 A (MERLON SPA [IT]) 11 March 199 * column 4, line 37 -	2 (1992-03-11)	7-11	
A	GB 2 314 009 A (DAEW00 [KR]) 17 December 1997 * the whole document *	(1997-12-17)	1-11	
A	EP 0 836 829 A (SAMSUN [KR]) 22 April 1998 (1 * the whole document *	998-04-22)	1-11	TECHNICAL FIELDS SEARCHED (IPC)
A	JP 11 262466 A (MATSUS LTD) 28 September 1999 * abstract; figures * 		1-11	
	The present search report has been of Place of search	drawn up for all claims Date of completion of the search		Examiner
Place of search Munich		8 May 2009	Lodato, Alessandra	
X : part Y : part docu	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another ument of the same category nological background written disclosure	T : theory or principle E : earlier patent doo after the filing date D : document cited ir L : document cited fo	ument, but puble e n the application or other reasons	lished on, or

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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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

08-05-2009

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
GB 2019204	A	31-10-1979	DE FR IT SE	2817813 A 2423202 A 1112249 B 7903405 A	
FR 2406373	Α	11-05-1979	DE ES IT SE	2745644 A 238523 Y 1099300 B 7810461 A	16-04-1 18-09-1
EP 0474127	Α	11-03-1992	IT	1240721 B	17-12-1
GB 2314009	Α	17-12-1997	JP KR US	10080393 A 0122507 Y 5842492 A	1 17-08-1
EP 0836829	A	22-04-1998	CN DE DE JP JP	1182570 A 69712436 D 69712436 T 3009641 B 10146311 A	1 13-06-2 2 12-12-2 2 14-02-2
JP 11262466	Α	28-09-1999	JP	3651240 B	2 25-05-2