



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 074 679 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
29.05.2002 Bulletin 2002/22

(51) Int Cl.7: **E04H 4/16**

(43) Date of publication A2:
07.02.2001 Bulletin 2001/06

(21) Application number: **00500118.5**

(22) Date of filing: **07.06.2000**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventors:
• **Capdevila Arnau, Joan**
17854 Sant Jaume de Llierca, Girona (ES)
• **Puiggros Roig, Armand**
17854 Sant Jaume de Llierca, Girona (ES)

(30) Priority: **04.08.1999 ES 9902085 U**
05.08.1999 ES 9902095 U
06.08.1999 ES 9902108 U

(74) Representative: **Pastells Teixido, Manuel**
c/o PASTELLS & ARAGONES, S.L.,
Pau Claris, 138
08009 Barcelona (ES)

(71) Applicant: **Sacopa, S.A.**
17854 Sant Jaume de Llierca, Girona (ES)

(54) **A swimming pool bottom flushing device**

(57) The device comprises a tubular arrangement attached to the pipe arranged at the swimming pool bottom, and a water ejector nozzle axially fitted into said supporting arrangement in a freely rotatable, vertically shiftable arrangement. The device is characterized in that the nozzle supporting arrangement comprises a socket attached to the inside of the pipe and does also incorporate a fitted-in ball-bushing housing the nozzle. The nozzle is formed by an open-ended tubular body provided at least with one opening in its periphery, said tubular body being at its open top fitted with a tubular, rotationally positionable plug peripherally provided with openings of different diameters provided to selectively face the openings of the tubular body in order to control the outflow of the water jet being ejected for the flushing of the swimming pool bottom.

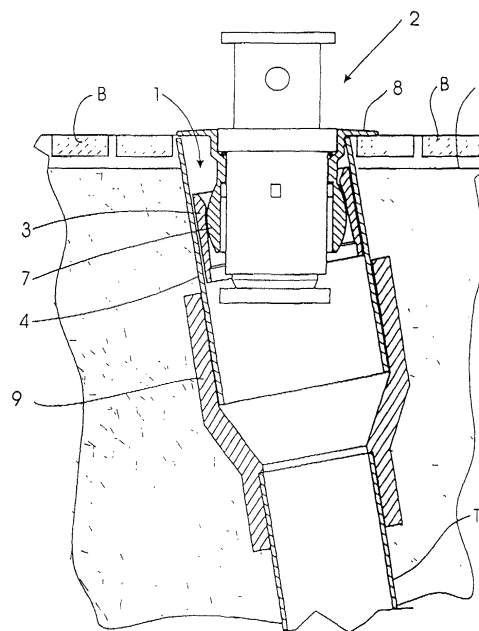


Fig. 5

EP 1 074 679 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 50 0118

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	US 4 371 994 A (MATHEWS LESTER R) 8 February 1983 (1983-02-08) * column 1, line 13 - line 23 * * column 3, line 13 - column 4, line 44; figures 1,2,6-8 *	1,4,6,7	E04H4/16
E	US 6 138 293 A (MATHEWS LESTER) 31 October 2000 (2000-10-31) * abstract; figures 1,2,9 *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			E04H A61H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 5 April 2002	Examiner Zuurveld, G
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			

EPO FORM 1503 03/82 (P04C01)

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

EP 00 50 0118

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.

05-04-2002

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4371994 A	08-02-1983	AU 539164 B2 AU 7062381 A	13-09-1984 10-12-1981
US 6138293 A	31-10-2000	NONE	