



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 426 502 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
29.09.2004 Bulletin 2004/40

(51) Int Cl.7: **E03D 1/32**, E03D 1/14,
F16K 21/18, E03D 1/30,
E03D 5/10

(43) Date of publication A2:
09.06.2004 Bulletin 2004/24

(21) Application number: **03026902.1**

(22) Date of filing: **24.11.2003**

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

(72) Inventors:
• **Varotti, Mario**
25078 Vestone (IT)
• **Ferreira, Francisco**
25078 Vestone (IT)

(30) Priority: **29.11.2002 IT MI20022547**

(74) Representative: **Cerbaro, Elena, Dr. et al**
STUDIO TORTA S.r.l.,
Via Viotti, 9
10121 Torino (IT)

(54) **Electronically controlled lavatory flush tank**

(57) An electronically controlled lavatory flush tank (1) includes a hydraulic circuit (2) fitted with at least one valve (3; 4); and the hydraulic circuit (2) in turn has a fill inlet (10, 11) connectable to a water mains, and a vessel (12) having a drain hole (13). The tank (1) includes an electronic level sensor (5) for detecting the level of a fluid in the vessel (12); an electronic control circuit (6); and at least one electromechanical actuator (7; 8) activated by the electronic control circuit (6) for alternatively opening and closing the valve (3; 4) on the basis of the level detected by the level sensor (5).

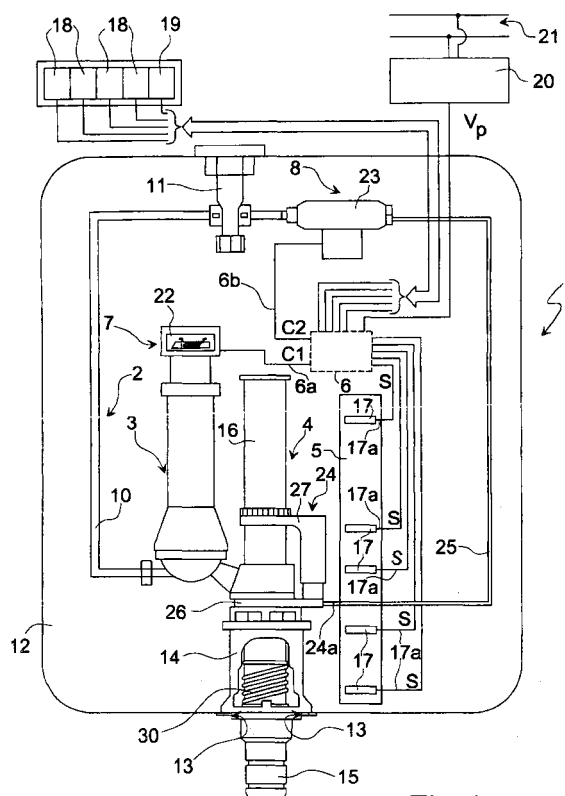


Fig.1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 03 02 6902

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)
X	EP 1 156 166 A (GEBERIT TECHNIK AG) 21 November 2001 (2001-11-21)	1-3,9,10	E03D1/32 E03D1/14
Y	* paragraphs [0013],[0015],[0016] * * paragraphs [0020]-[0022]; figure 1 *	4-8	F16K21/18 E03D1/30 E03D5/10
Y	FR 2 642 778 A (DORE PIERRE ;MUNIER MICHEL (FR)) 10 August 1990 (1990-08-10) * page 2, line 5 - page 3, line 15; figure 1 *	4-8	
X	DE 199 62 404 A (BARTSCH ELEKTROTECHNIK GMBH) 5 July 2001 (2001-07-05) * abstract *	1,9,10	
X	FR 2 770 547 A (WIRQUIN PLASTIQUES SA) 7 May 1999 (1999-05-07) * abstract *	1,9	
A	US 2 744 262 A (BOYD RITTER MARGARETTA) 8 May 1956 (1956-05-08) * the whole document *	4-6	
A	US 3 088 122 A (PORE GLEN L) 7 May 1963 (1963-05-07) * the whole document *	4-6	
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 5 August 2004	Examiner Geisenhofer, M
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 03 02 6902

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.

05-08-2004

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1156166	A	21-11-2001	AT	4952 U1	25-01-2002
			DE	20104033 U1	21-06-2001
			EP	1156166 A2	21-11-2001

FR 2642778	A	10-08-1990	FR	2642778 A3	10-08-1990

DE 19962404	A	05-07-2001	DE	19962404 A1	05-07-2001

FR 2770547	A	07-05-1999	FR	2770547 A1	07-05-1999

US 2744262	A	08-05-1956	NONE		

US 3088122	A	07-05-1963	NONE		
