

(19)



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11)

EP 1 199 414 A3

(12)

## EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
**02.10.2002 Bulletin 2002/40**

(51) Int Cl. 7: **E03D 1/012, E03D 5/092**

(43) Date of publication A2:  
**24.04.2002 Bulletin 2002/17**

(21) Application number: **01124980.2**

(22) Date of filing: **19.10.2001**

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

Designated Extension States:  
**AL LT LV MK RO SI**

(30) Priority: **20.10.2000 IT MI000596 U**

(71) Applicant: **Oliveira & Irmao S.A.  
3800 Aveiro (PT)**

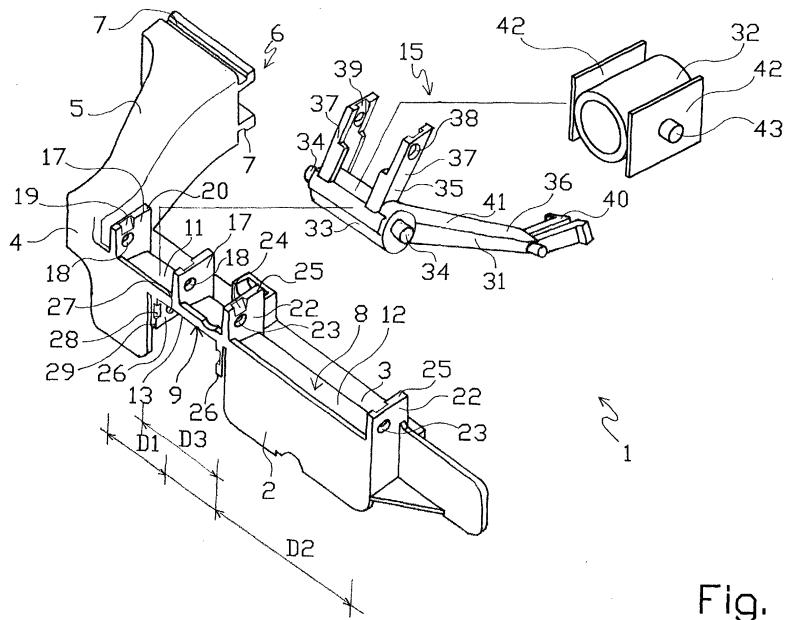
(72) Inventor: **Moura De Oliveira, Antonio Manuel  
3800 Aveiro (PT)**

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

### (54) Control device for flush tank discharge valves

(57) A control device (1) for flush tank discharge valves, of the type in which a support (2) for the actuating members of a discharge valve is defined by a one-piece body made of polymer material, and has reversible fastening means (6) for connection to a member on a flush tank; the support (2) has a first, a second, and a third seat (11, 12, 13) for respective actuating members (15) connectable to the discharge valve; each seat (11, 12,

13) has connecting means (18, 19, 23, 24, 27, 28) by which a respective actuating member (15) clicks onto and pivots with respect to the support (2); and the support (2) is designed to receive from one to three actuating members (15), depending on the type of flush tank, with no alterations required, and with no need for supports specially designed for specific tanks, so that the control device (1) may be used on different types of flush tank.





European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 01 12 4980

DOCUMENTS CONSIDERED TO BE RELEVANT		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)		
Category	Citation of document with indication, where appropriate, of relevant passages				
X	US 6 092 245 A (JONES BUTCH) 25 July 2000 (2000-07-25) * column 3, line 28 - line 38 * * column 3, line 64 - column 4, line 39 * * figures 1-3 *	1, 2	E03D1/012 E03D5/092		
X	DE 299 04 933 U (SANITAERTECHNIK EISENBERG GMBH) 10 June 1999 (1999-06-10)	1			
A	* page 4, paragraph 2 - paragraph 3 * * page 5, last paragraph - page 6, last paragraph * * figures *	2-5			
A	EP 0 893 543 A (VALSIR S P A) 27 January 1999 (1999-01-27) * column 3, line 30 - line 52 * * figures 1,4 *	3			
		TECHNICAL FIELDS SEARCHED (Int.Cl.7)			
		E03D			
The present search report has been drawn up for all claims					
Place of search	Date of completion of the search	Examiner			
THE HAGUE	6 August 2002	Urbahn, S			
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					

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

EP 01 12 4980

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.

06-08-2002

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 6092245	A	25-07-2000	NONE			
DE 29904933	U	10-06-1999	DE	29904933 U1		10-06-1999
EP 0893543	A	27-01-1999	IT EP	T0970162 U1 0893543 A1		25-01-1999 27-01-1999