(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **22.12.2010 Bulletin 2010/51**

(51) Int Cl.: **E03C** 1/242^(2006.01)

E03C 1/232 (2006.01)

(43) Date of publication A2: **18.03.2009 Bulletin 2009/12**

(21) Application number: 07123541.0

(22) Date of filing: 19.12.2007

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated Extension States:

AL BA HR MK RS

(30) Priority: 14.09.2007 IT MI20071778

(71) Applicant: Ideal Standard International BVBA 1160 Brussels (BE)

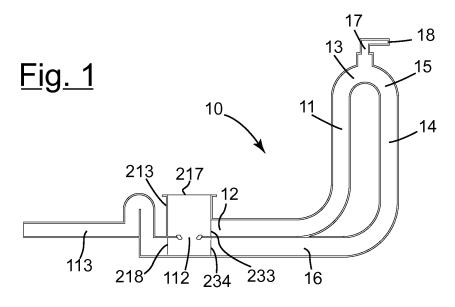
(72) Inventor: Moretto, Alessandro
33080 Castions di Zoppola (Pordenone) (IT)

(74) Representative: Postiglione, Ferruccio et al Ufficio Internazionale Brevetti Ing. C. Gregorj S.p.A. Via L. Muratori, 13/b 20135 Milano (IT)

(54) Filling limiting device of concealed type for sanitary facilities and a sanitary facility using the same

(57) The present invention regards a filling limiting device of concealed type for sanitary facilities and a sanitary facility using the same. The filling limiting device (10) for sanitary facilities (50) according to the present invention comprises a first pipe (11), connectable at a first end (12) thereof to the base of the filling tank (51) of the sanitary facility (50) and connected at a second end (13) thereof to a second pipe (14) for water drainage, the first pipe (11) being shaped in a manner such that its second

end (13) is positioned at a greater elevation with respect to its first end (12), the second pipe (14) comprising a first end (15) connected to said second end (13) of said first pipe (11) and a second end (16) positioned at a lower elevation than said first end (12) of said first pipe (11), at the connection between said second end (13) of said first pipe (11) and said first end (15) of said second pipe (14) a vent pipe (17) towards the environment being provided for and provided with, at an open end (18) thereof, a vent control valve (19) for the exit and/or entry of air.





EUROPEAN SEARCH REPORT

Application Number EP 07 12 3541

	Citation of document with in	udication where appropriate	Relevant	CL ASSISICATION OF THE		
Category	of relevant passa	ndication, where appropriate, ages	Helevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)		
X Y	EP 1 593 784 A2 (SI A [IT]) 9 November * the whole documen		1,6 2-4,7	INV. E03C1/242 E03C1/232		
Α			14,17,18	·		
Х	[DE]) 7 December 20		1,6			
Α	* paragraph [0012];	figure 1 *	7,9-11			
Υ	DE 91 04 424 U1 (LI 27 June 1991 (1991- * page 5, paragraph * page 6, paragraph	5; figures 1,2 *	2-4			
Υ	PLINY MOSBY) Ì July	UTTERFIELD LTD; GORDON 1947 (1947-07-01) 24, 82-90; figure 1 *	3			
Υ		MIDT WILLIAM J [US])	4			
Α	5 October 1993 (199 * figures 5,6 *	3-10-05)	2,3	TECHNICAL FIELDS SEARCHED (IPC)		
Υ	US 5 640 724 A (HOL 24 June 1997 (1997- * column 2, line 55 figure 2 *		7	E03C F16K		
Α	DE 91 02 152 U1 (GE 16 May 1991 (1991-0 * the whole documen		1,2,5-7, 9,14-18			
Α	GB 966 137 A (GIRLI 6 August 1964 (1964 * the whole documen	-08-06)	2,3			
А	CH 344 883 A (RENAU 29 February 1960 (1 * figures 10,16 *	LT [FR]) 960-02-29)	3,4			
		-/				
	The present search report has b	ooon drawn up for all claims				
	Place of search	Date of completion of the search		Examiner		
	Munich	16 November 2010	Leh	er, Valentina		
X : part Y : part docu A : tech	ATEGORY OF CITED DOCUMENTS ioularly relevant if taken alone ioularly relevant if combined with another unent of the same category inological background	L : document cited fo	underlying the in ument, but publis the application r other reasons	nvention		
O : non-written disclosure P : intermediate document		& : member of the sa document	& : member of the same patent family, corresponding			



EUROPEAN SEARCH REPORT

Application Number EP 07 12 3541

Category	Citation of document with indication	n, where appropriate,	Relevant	CLASSIFICATION OF THE
Jalegol y	of relevant passages		to claim	APPLICATION (IPC)
A	DE 696 01 984 T2 (DURGO 19 August 1999 (1999-08 * the whole document *	AB [SE]) -19)	1, 5	
A	US 5 208 921 A (NICOLL 11 May 1993 (1993-05-11) * the whole document *	JAMES D [US]) 7	,	
				TECHNICAL FIELDS
				SEARCHED (IPC)
	The present search report has been dra	awn up for all claims		
	Place of search	Date of completion of the search	T	Examiner
	Munich	16 November 2010	Leh	er, Valentina
X : parti Y : parti docu A : tech	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with another ment of the same category nological background		nent, but publis e application ther reasons	hed on, or
A:tech	ment of the same category nological background written disclosure			

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

EP 07 12 3541

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.

16-11-2010

cite	Patent document ed in search report		Publication date		Patent family member(s)	Publicatio date
EP	1593784	A2	09-11-2005	NONE		1
DE	202006006240	U1	07-12-2006	NONE		
DE	9104424	U1	27-06-1991	NONE		
GB	589815	Α	01-07-1947	NONE		
US	5249598	Α	05-10-1993	AU WO	4802493 A 9403746 A1	03-03-1 17-02-1
US	5640724	Α	24-06-1997	NONE		
DE	9102152	U1	16-05-1991	AT CA DE DK EP ES GR US	85998 T 2037236 A1 59100042 D1 0446177 T3 0446177 A1 2038063 T3 3007198 T3 5121509 A	15-03- 07-09- 01-04- 05-04- 11-09- 01-07- 30-07- 16-06-
GB	966137	Α	06-08-1964	NONE		
СН	344883	Α	29-02-1960	NONE		
DE	69601984	Т2	19-08-1999	AT DE DK EP JP JP SE SE US	178696 T 69601984 D1 754895 T3 0754895 A2 4065339 B2 9026046 A 503815 C2 9502280 A 5881759 A	15-04- 12-05- 18-10- 22-01- 26-03- 28-01- 09-09- 09-09- 16-03-
	5208921	Α	11-05-1993	NONE		