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(54) **Toilet brush with interchangeable components**

(57) Described herein is a toilet brush (20) provided with interchangeable components, of the type that can be inserted inside a container (22), provided with a handle-stick (32) and a head (24) which forms the lower end of the handle-stick (32). The handle-stick (32) is provided with a hollow tubular upper portion (34) at the lower end of which, constrained in a rotating manner there is a cover (38) for the container (22). Inside the lower end of the hollow tubular upper portion (34) is inserted in a non-removable manner at least one releasable coupling element (42), configured to be engaged with a corresponding releasable coupling element (44) made at the upper end of the head (24), thus joining in a non-removable manner the head (24) itself and the hollow tubular upper portion (34) of the handle-stick (32).

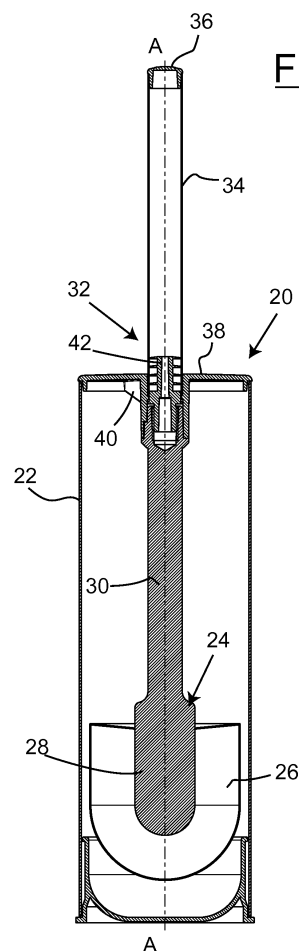


Fig. 2



EUROPEAN SEARCH REPORT

Application Number
EP 07 12 3897

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X A	EP 0 867 143 A2 (TRISA HOLDING AG [CH]) 30 September 1998 (1998-09-30) * the whole document *	1-3,6,7, 10 8	INV. A47K11/10
X A	DE 92 01 932 U1 (CORONET WERKE GMBH [DE]) 30 September 1993 (1993-09-30) * page 4, line 28 - page 9, line 29; figures 1-4 *	1,3,6 7,8	
X	US 6 804 839 B1 (MCMASTER RANDY [US]) 19 October 2004 (2004-10-19) * column 2, line 56 - column 3, line 62; figures *	1-3	
X A	DE 93 13 551 U1 (KURZ ENRIQUE [DE]) 23 December 1993 (1993-12-23) * the whole document *	1,6 3,7,8	
X A	WO 2005/095723 A1 (MULTIVENT CONSTRUCTION AB [SE]; GROENDAHL SVEN ALGOT [SE]) 13 October 2005 (2005-10-13) * page 6, paragraph 3 - page 7, paragraph 2; figures 12-17 *	1,6 7,8	TECHNICAL FIELDS SEARCHED (IPC) A47K
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 23 February 2012	Examiner Fajárnés Jessen, A
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	

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EPO FORM 1503 03.82 (P04C01)

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

EP 07 12 3897

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
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23-02-2012

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0867143	A2	30-09-1998	NONE
DE 9201932	U1	30-09-1993	NONE
US 6804839	B1	19-10-2004	NONE
DE 9313551	U1	23-12-1993	NONE
WO 2005095723	A1	13-10-2005	AU 2005227611 A1 13-10-2005
		CA 2558093 A1	13-10-2005
		EP 1730361 A1	13-12-2006
		JP 2007530841 A	01-11-2007
		SE 528542 C2	12-12-2006
		SE 0400893 A	03-10-2005
		US 2009106922 A1	30-04-2009
		WO 2005095723 A1	13-10-2005