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(54) **Title:** MULTIFLOW TEAT-RING FOR BABY BOTTLE AND BABY BOTTLE COMPRISING SAME

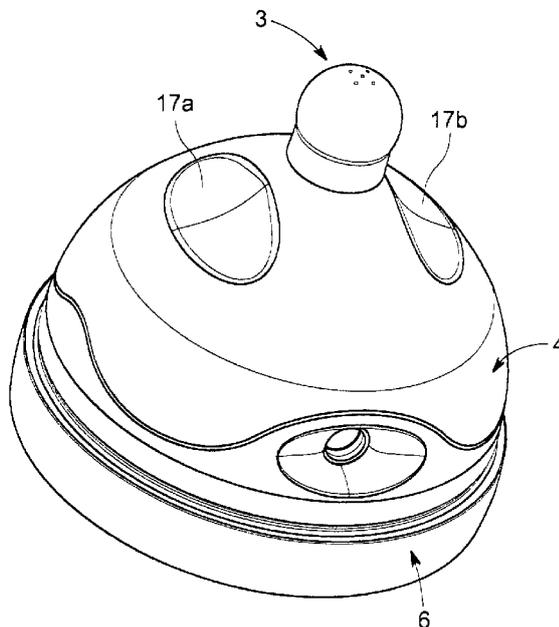


FIG. 6

(57) **Abstract:** A baby bottle (2) intended for feeding infants is most generally made up of a teat-ring (1), of a baby bottle body (14) and of a protective cap (15). The baby bottle (2) consists of a rigid ring (6). The rigid ring (6) is secured to the external face (9a) of the base of the skirt (7), and the ring (6) is arranged in such a way that the opening or, respectively, the closing of the baby bottle (2) is performed by rotation through 90 degrees or less. The ring (6) comprises on its periphery at least two cutouts (6a, 6b) each providing access to a section (7a, 7b) of the base of the skirt (7) through which there are formed two devices (13a, 13b) allowing air to be drawn into the baby bottle (2), and the teat (3) further comprises at its upper end several orifices (3a, 3b, 3c) acting as milk ducts during suckling.



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A. CLASSIFICATION OF SUBJECT MATTER A61J 11/00(2006.01)i According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) A61J Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CNPAT, CNKI, WPI, EPODOC: teat, ring, baby w bottle?, infant?, flexible, skirt, base, rigid, air, orifice?, Shore w hardness		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CN 103501754 B (MEDELA HOLDING A.G.) 15 February 2017 (2017-02-15) description, paragraphs [0062]-[0092] and figures 1-7	1-15
Y	CN 103561711 A (MOTHERCARE UK LIMITED) 05 February 2014 (2014-02-05) description, paragraphs [0089]-[0097] and figures 1-4	1-15
A	CN 205145157 U (HUANG, Manya) 13 April 2016 (2016-04-13) the whole document	1-15
A	CN 207734369 U (UNIV. PEKING SHENZHEN HOSPITAL) 17 August 2018 (2018-08-17) the whole document	1-15
A	US 2016101024 A1 (BURNETT, Elizabeth M.) 14 April 2016 (2016-04-14) the whole document	1-15
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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Name and mailing address of the ISA/CN National Intellectual Property Administration, PRC 6, Xitucheng Rd., Jimen Bridge, Haidian District, Beijing 100088 China Facsimile No. (86-10)62019451		Authorized officer QUAN, Yujun Telephone No. 86-(10)-53962561

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Information on patent family members

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Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
CN	103501754	B	15 February 2017	MX	343258	B	31 October 2016
				US	2012248056	A1	04 October 2012
				CH	704758	A1	15 October 2012
				US	2015076733	A1	19 March 2015
				EP	2691066	B1	10 February 2016
				US	8910809	B2	16 December 2014
				US	9840032	B2	12 December 2017
				AU	2012234677	A1	26 September 2013
				JP	2014513611	A	05 June 2014
				SG	193425	A1	30 October 2013
				MX	2013010951	A	22 August 2014
				BR	112013025089	A2	14 February 2017
				EP	2691066	A1	05 February 2014
				KR	20140009425	A	22 January 2014
				JP	6010604	B2	19 October 2016
				AU	2012234677	B2	09 July 2015
				HK	1192445	A1	28 October 2016
				KR	101940684	B1	21 January 2019
				CN	103501754	A	08 January 2014
				IL	228453	A	30 April 2017
				WO	2012129714	A1	04 October 2012
				CA	2830736	C	20 November 2018
				ES	2569186	T3	09 May 2016
				RU	2600706	C2	27 October 2016
				CA	2830736	A1	04 October 2012
				MY	164184	A	30 November 2017
RU	2013144671	A	10 May 2015				
CN	103561711	A	05 February 2014	WO	2012156879	A1	22 November 2012
				GB	2490735	A	14 November 2012
				US	2014291272	A1	02 October 2014
CN	205145157	U	13 April 2016	None			
CN	207734369	U	17 August 2018	None			
US	2016101024	A1	14 April 2016	US	2016101023	A1	14 April 2016
				US	9421150	B2	23 August 2016
				US	9649259	B2	16 May 2017