

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 October 2008 (09.10.2008)

PCT

(10) International Publication Number
WO 2008/121565 A3

- (51) International Patent Classification:
A61H 7/00 (2006 01)
- (21) International Application Number:
PCT/US2008/057585
- (22) International Filing Date: 20 March 2008 (20 03 2008)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/908,749 29 March 2007 (29 03 2007) US
- (71) Applicant and
(72) Inventor: GASPARD, Sanna [US/US], 1715 Hays Street,
Pittsburgh, Pennsylvania 15218 (US)
- (74) Agent: SILVERMAN, Arnold B., Eckert Seamans
Cheϋn & Mellott, LLC, 600 Grant Street, 44th Floor,
Pittsburgh, Pennsylvania 15219 (US)
- (81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

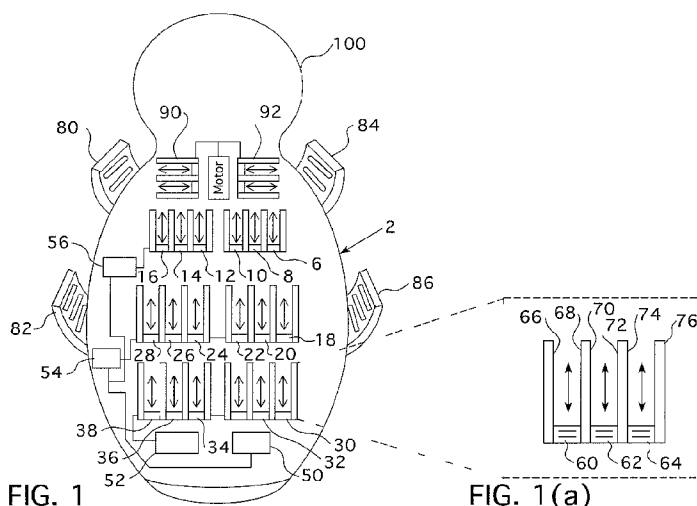
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Published:
— with international search report

(88) Date of publication of the international search report:
20 November 2008

(54) Title: AUTOMATED INFANT MASSAGER



(57) Abstract: An automated infant massager has a base for supporting the infant and a plurality of first movable massage elements structured to underlie a portion of the infant. At least one motor is employed for effecting reciprocating movement of the first movable massage element. A plurality of second movable massage elements is provided for massaging the arms and legs of the infant. A plurality of third movable elements is provided within a head support for massaging portions of the infant's head, and a plurality of fourth movable massage elements are provided for massaging the infant's shoulders. The infant massager may, in one embodiment, be structured to receive and massage a premature infant, and in another embodiment, may be structured to receive and massage a full-term infant.

WO 2008/121565 A3

INTERNATIONAL SEARCH REPORT

International application No

PCT/US 08/57585

A CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61 H 7/00 (2008.04) USPC - 601/84 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) IPC(8) - A61H 7/00 (2008 04) USPC - 601/84 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC - 601/84, 89, 90, 97, 98, 103 (Text Search) Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST (PGPB, USPC, USOC, EPAB, JPAB), DialogPRO (Engineering) and Google Scholar Search Terms massager, massagS, infant, newborn, baby, automated, massage, arm, leg, head, support, headrest, shoulder, back, surface, irregular, open, close, contact, brow, monitor, discomfort, timer, on, off, start, activatS, endless belt		
C DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	US 5,006,105 A (SHERARD) 09 April 1991 (09 04 1991), figs 6, 7, col 1, ln 62-68, col 3, ln 47-55, col 4, ln 29-39	1-58
Y	US 4,191,177 A (ABBOTT) 04 March 1980 (04 03 1980), claims 1, 5, figs 1, 3, 6, 7, col 1, ln 31-53, col 2, ln 36-51, 58-68, col 3, ln 1-13, 14-44, col 4, ln 39-63, col 5, ln 2-66, col 6, ln 44-52, col 7, ln 2-25	1-58
Y	US 2002/0033628 A1 (CLOUGH) 21 March 2002 (21 03 2002), para [0051]-[0054]	7, 20-22 and 36
Y	US 2006/0036202 A1 (IWATA, et al) 16 February 2006 (16 02 2006), para [0005], [0021], [0033], [0039]	15 and 37
Y	US 2006/0069333 A1 (PIDCOCK) 30 March 2006 (30 03 2006), fig 5, para [0012], [0043]	16
Y	US 3,290,985 A (BAINS, et al) 13 December 1966 (13 12 1966), claim 1	18, 19, 28, 29, 48 and 57
Y	US 3,802,420 A (MOFFAT, et al) 09 April 1974 (09 04 1974), claims 1, 3, col 1, ln 16-25, col 3, ln 10-30, 61-68, col 4, ln 1-13, col 5, ln 26-55	23-25
Y	US 2003/0212352 A1 (KAHN) 13 November 2003 (13 11 2003), para [0056], [0057], [0111], [0118], [0134]-[0139], [0140], [0147]-[0149]	29, 31-34, 39-41, 44-47, 50-52 and 55-58
Y	US 5,446,934 A (FRAZIER) 05 September 1995 (05 09 1995), col 1, ln 64-68, col 2, ln 1-2, col 3, ln 29-31	49 and 51
<input type="checkbox"/> Further documents are listed in the continuation of Box C <input type="checkbox"/>		
* Special categories of cited documents	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family	
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		
Date of the actual completion of the international search 02 September 2008 (02 09 2008)	Date of mailing of the international search report 05 SEP 2008	
Name and mailing address of the ISA/US Mail Stop PCT, Attn ISA/US, Commissioner for Patents P O Box 1450, Alexandria, Virginia 22313-1450 Facsimile No 571-273-3201	Authorized officer Lee W Young PCT Helpdesk 571 272-4300 PCTOSP 571 272 7774	