

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
10 November 2022 (10.11.2022)



(10) International Publication Number
WO 2022/236309 A1

(51) International Patent Classification:

A47D 1/00 (2006.01) A47D 13/10 (2006.01)
A47D 9/02 (2006.01) A47D 15/00 (2006.01)

(21) International Application Number:

PCT/US2022/072144

(22) International Filing Date:

05 May 2022 (05.05.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/184,625 05 May 2021 (05.05.2021) US
17/662,024 04 May 2022 (04.05.2022) US

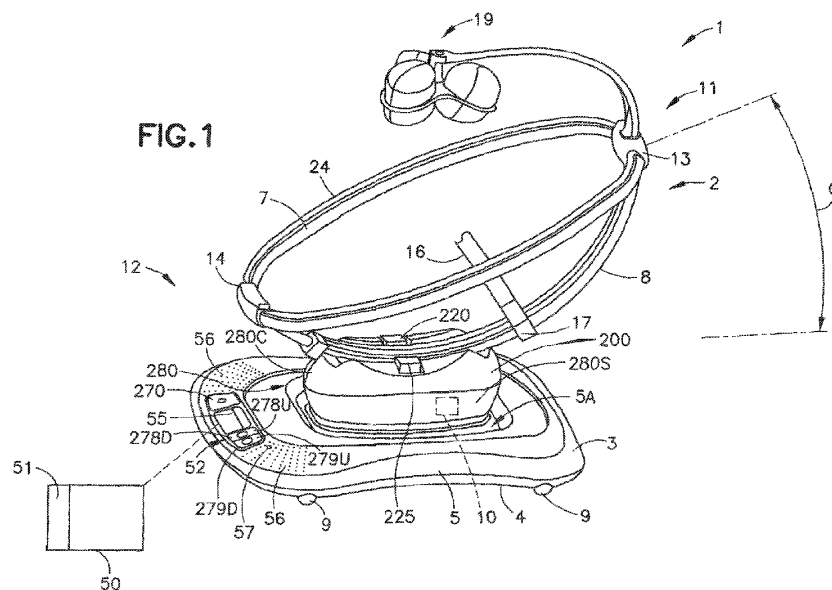
(71) Applicant: **THORLEY INDUSTRIES, LLC (DBA 4MOMS)** [US/US]; 912 Fort Duquesne Blvd, Pittsburgh, PA 15222 (US).

(72) Inventor: **JUCHNIEWICZ, Richard**; 912 Fort Duquesne Blvd, Pittsburgh, PA 15222 (US).

(74) Agent: **MARCOVICI, Janik** et al.; Perman & Green, LLP, 99 Hawley Lane, Stratford, CT 06614 (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, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(54) Title: INFANT CARE APPARATUS



(57) Abstract: An infant care apparatus including a base, a drive, an infant support, and a controller. The a drive is coupled to the base and has a first electromechanical driver defining a first degree of freedom forming a first axis of motion of a movable infant load seat surface dependent from and movable relative to the base. The infant support is removably coupled to the movable infant load seat surface. The drive is a distributed drive distributed to the base and the infant support, and includes a second electromechanical driver integral with the infant support that defines a second degree of freedom forming a second axis of motion of the infant support. The controller is communicably coupled to the distributed drive and is configured so as to move, via the first and second electromechanical drivers, the infant support relative to the base.

[Continued on next page]

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

Published:

— with international search report (Art. 21(3))