

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
03 October 2024 (03.10.2024)



(10) International Publication Number
WO 2024/200866 A3

(51) International Patent Classification:
B62B 7/08 (2006.01) **B62B 9/10** (2006.01)

(21) International Application Number:
PCT/EP2024/058901

(22) International Filing Date:
02 April 2024 (02.04.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
202310344611.7 31 March 2023 (31.03.2023) CN
202310513910.9 08 May 2023 (08.05.2023) CN
202310703429.6 13 June 2023 (13.06.2023) CN
202311206991.4 18 September 2023 (18.09.2023) CN
202311281801.5 28 September 2023 (28.09.2023) CN
202410348461.1 25 March 2024 (25.03.2024) CN

(71) Applicant: **WONDERLAND SWITZERLAND AG**
[CH/CH]; Beim Bahnhof 5, 6312 Steinhausen (CH).

(72) Inventors: **YI, Xiaolong**; Yinhu Industrial Zone, Qingxi Town, Dongguan, Guangdong 523648 (CN). **WU, Haitao**; Yinhu Industrial Zone, Qingxi Town, Dongguan, Guangdong 523648 (CN). **WANG, Erxue**; Yinhu Industrial Zone, Qingxi Town, Dongguan, Guangdong 523648 (CN).

(74) Agent: **HOFFMANN EITLE PATENT- UND RECHTSANWÄLTE PARTMBB, ASSOCIATION NO. 151**; Arabellastraße 30, 81925 Munich (DE).

(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, CV, 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, MG, MK, MN, MU, 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.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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).

(54) Title: CARRIER, ARMREST INSTALLATION UNIT, HEIGHT ADJUSTMENT MECHANISM

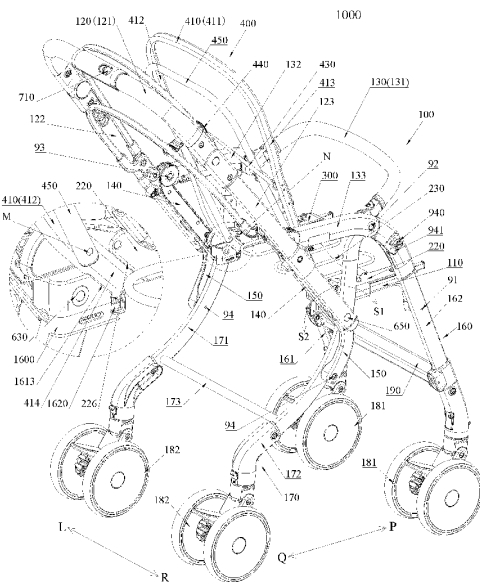


FIG. 1

(57) Abstract: A carrier, an armrest installation unit, and a height adjustment mechanism are provided. The carrier includes a backrest assembly, a carrier frame switchable between a folded state and an expanded state, a seat assembly movably disposed on the carrier frame, and a connecting rod assembly movably connected to each of the carrier frame, the seat assembly, and the backrest assembly. The carrier frame drives the backrest assembly to fold toward the seat assembly via the connecting rod assembly when the carrier frame switches from the expanded state to the folded state.

WO 2024/200866 A3

[Continued on next page]

Declarations under Rule 4.17:

- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:

06 March 2025 (06.03.2025)