

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
30 March 2023 (30.03.2023)



(10) International Publication Number
WO 2023/046954 A1

- (51) **International Patent Classification:**
B60N 2/28 (2006.01) *B60N 2/02* (2006.01)
- (21) **International Application Number:**
PCT/EP2022/076675
- (22) **International Filing Date:**
26 September 2022 (26.09.2022)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
202111125485.3 24 September 2021 (24.09.2021) CN
- (71) **Applicant: WONDERLAND SWITZERLAND AG**
[CH/CH]; Beim Bahnhof 5, 6312 Steinhausen (CH).
- (72) **Inventor: CHENG, Manqun;** c/o WONDERLAND
SWITZERLAND AG, Beim Bahnhof 5, 6312 Steinhausen
(CH).
- (74) **Agent: KRETSCHMANN, Dennis;** BOEHMERT &
BOEHMERT ANWALTSPARTNERSCHAFT MBB, Pet-
tenkoferstraße 22, 80336 München (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, 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.

(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))
- 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))

(54) **Title:** CHILD SAFETY SEAT AND ELECTRIC ANGLE ADJUSTMENT DEVICE THEREOF

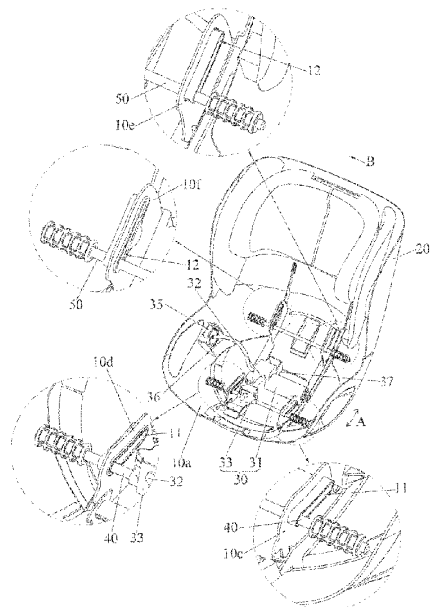


FIG. 4

(57) **Abstract:** The invention discloses an electric angle adjustment device, which is disposed between a seat body and a base of a child safety seat, the seat body is slidably assembled on the base along a front-rear direction of the base, and the electric angle adjustment device of the invention comprises a motor, a rotating member, a sliding member, and an intermediate transmission assembly. The motor is disposed on one of the seat body and the base, and an output shaft of the motor extends along a left-right direction or up-down direction of the base, such that the output shaft of the motor is arranged intersecting with the rotating member. The sliding member is assembled on the other one of the seat body and the base, the sliding member is also slidably arranged on the rotating member; the intermediate transmission assembly is assembled on both the output shaft of the motor and the rotating member; wherein the motor drives the rotating member to rotate through the intermediate transmission assembly, and the rotating member in rotating brings the sliding member to slide on the rotating member, thereby electrically adjusting angle of the seat body in respect to the base; so as to achieve the purpose of small occupied space and short overall length. In addition, the invention also discloses a child safety seat.

WO 2023/046954 A1