

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
11 June 2020 (11.06.2020)



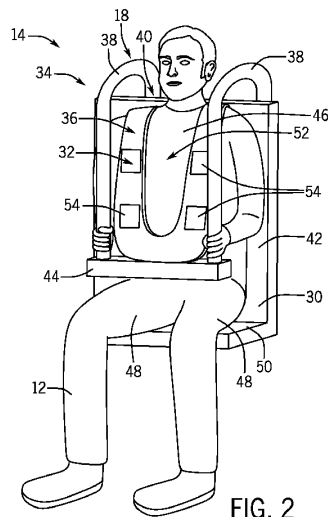
(10) International Publication Number
WO 2020/117815 A1

- (51) **International Patent Classification:**
A63G 7/00 (2006.01) *A63G 21/00* (2006.01)
- (21) **International Application Number:**
PCT/US2019/064250
- (22) **International Filing Date:**
03 December 2019 (03.12.2019)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
62/776,830 07 December 2018 (07.12.2018) US
16/428,460 31 May 2019 (31.05.2019) US
- (71) **Applicant: UNIVERSAL CITY STUDIOS LLC**
[US/US]; 100 Universal City Plaza, Universal City, California 91608 (US).
- (72) **Inventors: BRUNO, Dante Lamar**; 1000 Universal Studios Plaza, Orlando, Florida 32819 (US). **KANIA, Cameron John**; 1000 Universal Studios Plaza, Orlando, Florida 32819 (US).
- (74) **Agent: BAKKER, Jila et al.**; P.O. Box 692289, Houston, Texas 77269 (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, IR, IS, 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, SM, ST, SV, SY, TH, 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, 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).

(54) **Title:** RIDE VEHICLE RESTRAINT SYSTEM



(57) **Abstract:** A restraint system 18 for a ride vehicle 14 includes a rigid restraint 34 configured to extend across a passenger to secure the passenger within a seat 30 of the ride vehicle 14 and a soft restraint 36 coupled to the rigid restraint 34. The soft restraint 36 includes a pliable material configured to conform to a substantial portion of a torso of the passenger and a haptic feedback system 32 integrated with the soft restraint 36. The haptic feedback system 32 is configured to generate vibrational forces and impart the vibrational forces to the torso of the passenger.

WO 2020/117815 A1

[Continued on next page]

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *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))*