

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
18 June 2020 (18.06.2020)



(10) International Publication Number
WO 2020/123405 A2

(51) International Patent Classification:

A63G 7/00 (2006.01) A63G 31/16 (2006.01)
A63G 31/00 (2006.01) B60R 21/00 (2006.01)

(21) International Application Number:

PCT/US2019/065285

(22) International Filing Date:

09 December 2019 (09.12.2019)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/779,347 13 December 2018 (13.12.2018) US
16/438,216 11 June 2019 (11.06.2019) US

(71) Applicant: **UNIVERSAL CITY STUDIOS LLC**
[US/US]; 100 Universal City Plaza, Universal City, California 91608 (US).

(72) Inventors: **RODRIGUEZ, William**; 1000 Universal Studios Plaza, Orlando, Florida 32819 (US). **WILCOX, Rachel**; 1000 Universal Studios Plaza, Orlando, Florida 32819 (US). **MALATEK, Garrett**; 1000 Universal Studios Plaza, Orlando, Florida 32819 (US). **ALARCON, Luis Carlos**; 1000 Universal Studios Plaza, Orlando, Florida 32819 (US).

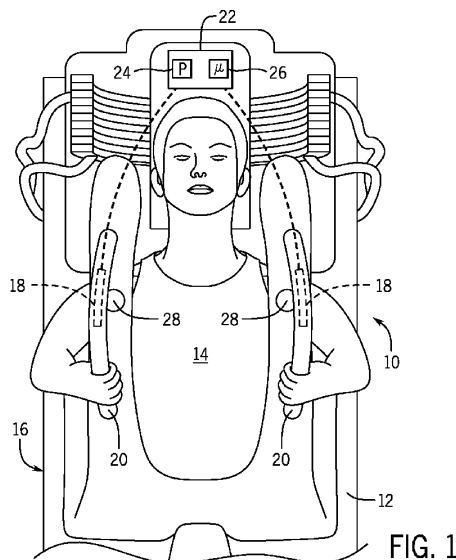
da 32819 (US). **PRIMM, Kevin**; 1000 Universal Studios Plaza, Orlando, Florida 32819 (US).

(74) Agent: **POWELL, W. Allen** 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: AMUSEMENT PARK RIDE VIBRATION SYSTEM



(57) Abstract: A ride vibration system 10 includes a rider support feature coupled to a ride vehicle and accessible to a rider positioned in the ride vehicle. The system includes a vibrator 18 with a motor 190 that rotates an eccentric mass 196 to generate vibrations. The vibrator 18 is at least partially integrated with the rider support feature and transfers the vibrations to the rider support feature. An input device receives a vibration intensity selection. A controller 22 couples to the vibrator 18 and to the input device. The controller 22 receives the vibration intensity selection and controls the motor 190 to control an intensity of the vibrations.

WO 2020/123405 A2

[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:

- *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*