

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 November 2021 (04.11.2021)



(10) International Publication Number
WO 2021/222550 A3

- (51) **International Patent Classification:**
A63G 3/00 (2006.01) *A63G 31/00* (2006.01)
- (21) **International Application Number:**
PCT/US2021/029875
- (22) **International Filing Date:**
29 April 2021 (29.04.2021)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/017,439 29 April 2020 (29.04.2020) US
17/243,233 28 April 2021 (28.04.2021) US
- (71) **Applicant:** **UNIVERSAL CITY STUDIOS LLC**
[US/US]; 100 Universal City Plaza, Universal City, California 91608 (US).
- (72) **Inventors:** **LOWRY, Sean Michael**; 1000 Universal Studios Plaza, Orlando, Florida 32819 (US). **HALL, Gregory Shellman**; 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, IT, 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).

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))
- 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:**
09 December 2021 (09.12.2021)

(54) **Title:** MULTI-STAGE WATER EFFECT SYSTEM

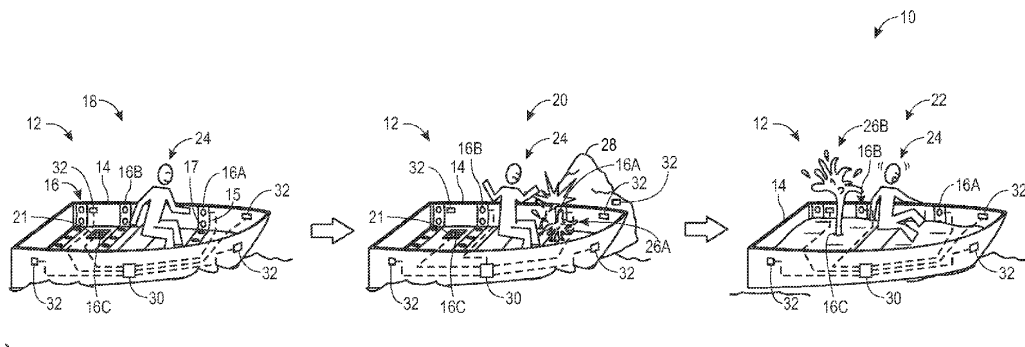


FIG. 1

(57) **Abstract:** A multi-stage water effect system includes a plurality of water ride vehicles. A water ride vehicle of the plurality of water ride vehicles has one or more water effect devices. The multi-stage water effect system also includes a control system communicatively coupled to the one or more water effect devices of the plurality of water ride vehicles. The control system activates the one or more water effect devices of the water ride vehicle to provide a first fluid flow at a first time. The control system also activates the one or more water effect devices of the water ride vehicle to provide a second fluid flow at a second time.

WO 2021/222550 A3