

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
05 May 2022 (05.05.2022)



(10) International Publication Number
WO 2022/093838 A1

(51) International Patent Classification:
A63G 31/16 (2006.01)

(21) International Application Number:
PCT/US2021/056675

(22) International Filing Date:
26 October 2021 (26.10.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/108,759 02 November 2020 (02.11.2020) US
17/465,400 02 September 2021 (02.09.2021) US

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

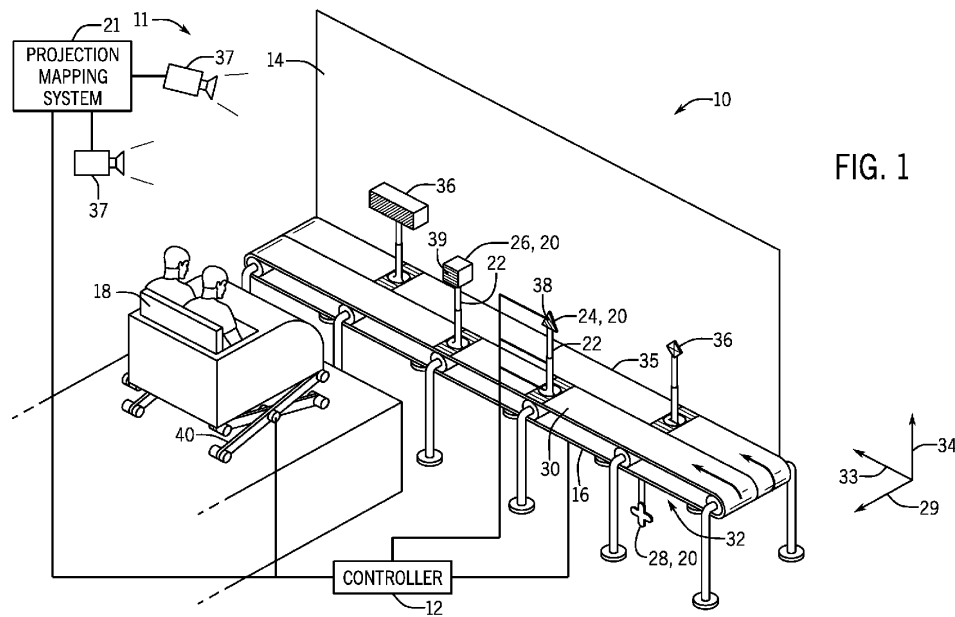
(72) Inventor: MELO, Anthony; 1000 Universal Studios Plaza, Orlando, Florida 32819 (US).

(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,

(54) Title: DYNAMIC PROJECTION MAPPING FOR MORPHING SET PIECES



(57) Abstract: The present disclosure describes an amusement show system (10). The amusement show system (10) includes guest seating (18), a background display (14), a conveyor (16), and a set piece (36) disposed on the conveyor (16). The conveyor (16) moves the set piece (36) with respect to the guest seating (18) between the guest seating (18) and the background display (14). The amusement show system (10) also includes a projection mapping system (21) that includes one or more projectors (37) configured to project images (38), (39) onto the set piece (36) such that a first image (38) is projected onto the set piece (36) at a first time and a second image (39) is projected onto the set piece (36) at a second time.

[Continued on next page]

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))*