

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
13 July 2023 (13.07.2023)



(10) International Publication Number
WO 2023/131279 A1

(51) International Patent Classification:
B25J 9/10 (2006.01) *A47L 11/24* (2006.01)
B25J 11/00 (2006.01)

(21) International Application Number:
PCT/CN2023/070935

(22) International Filing Date:
06 January 2023 (06.01.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/266,515 06 January 2022 (06.01.2022) US

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(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,

(54) Title: SYSTEM AND METHOD FOR FACADE OPERATIONS WITH ROBOTICS CARRIERS

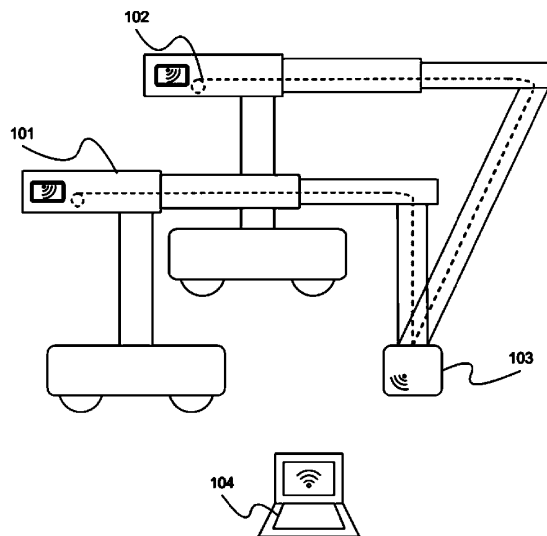


FIG. 1

(57) Abstract: The present invention pertains to a system that can conduct building facade operations with an end effector. The robot system can include an end effector and a carrier platform. The end effector can travel to a position along a building facade to conduct the required tasks such as inspection or marking. The carrier platform can include a mobile chassis, a cable actuating mechanism, a cable routing system, and a fall protection system. The mobile chassis can move the carrier platform along a roof of a building or other site. The cable routing system together with the cable actuating mechanism can drive positioning and extension of the end effector. The coordinated motion of the mobile chassis and the cable actuating mechanism can enable adaption to the building geometries and features. A fall protection system can be incorporated to ensure the safety of the end effector.

[Continued on next page]

LY, MA, MD, 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, CV, 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, ME, 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))*