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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
25 September 2025 (25.09.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/199498 A1

(51) International Patent Classification:
E05B 53/00 (2006.01) *E05F 13/02* (2006.01)
E05F 11/54 (2006.01) *E05F 11/16* (2006.01)
E05F 13/00 (2006.01)

(21) International Application Number:
PCT/US2025/021016

(22) International Filing Date:
21 March 2025 (21.03.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/568,028 21 March 2024 (21.03.2024) US

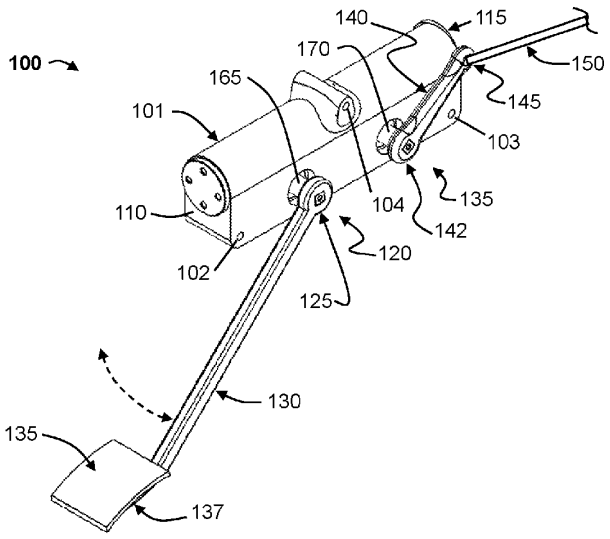
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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, 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, LY, MA, MD, MG, MK, MN, MU, 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, UY, 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, SC, 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).

(54) **Title:** HANDS-FREE DOOR OPENER



(57) **Abstract:** A hands-free door operating apparatus includes a housing attachable to a hinged door, an activation arm configured to receive foot pressure, and an opening arm arranged to couple to a nearby structure. Foot pressure on the activation arm initiates a mechanical sequence using rack-and-pinion assemblies and springs of differing force to open the door. A toggle lever temporarily restrains a return spring to allow the door to open under a weaker spring force, then releases the return spring to automatically re-close the door. The system enables door operation through a single foot input, without the use of hands.

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Published:
— *with international search report (Art. 21(3))*