

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
09 December 2021 (09.12.2021)



(10) International Publication Number
WO 2021/247536 A1

(51) International Patent Classification:

E05B 49/00 (2006.01) *E05B 47/02* (2006.01)
E05B 47/00 (2006.01) *E05B 47/06* (2006.01)

(21) International Application Number:

PCT/US2021/035200

(22) International Filing Date:

01 June 2021 (01.06.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/033,571 02 June 2020 (02.06.2020) US
63/062,166 06 August 2020 (06.08.2020) US

(71) Applicant: **MOORE, Rudy** [US/US]; 713 Orton Ct.,
Madison, Wisconsin 53703 (US).

(72) Inventor: **RYAN, John Joseph**; 313 N. Plankinton Ave
#211, Milwaukee, Wisconsin 53203 (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).

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))

(54) Title: ELECTRONIC LOCK SYSTEM



WO 2021/247536 A1

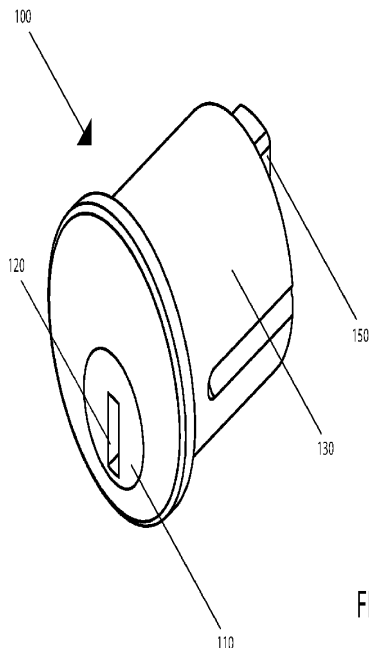


FIG. 1

(57) Abstract: The embodiments presented within provide methods, devices, and systems that improve access control through the use of smart cylinder locks. In one embodiment, a smart cylinder may perform a process including receiving a key, emitting an energy source of electromagnetic radiation; detecting a change in the energy source due to a physical property of the key, determining the physical property of the key from the change in the energy source, comparing the physical property with a predetermined value, and engaging a mechanism operatively coupled to a locking device that allows the locking device to lock or unlock when the physical property matches the predetermined value.