

Title (en)

ELECTRONIC COMBINATION LOCK WITH DIFFERENT LEVELS OF ACCESS CONTROL

Title (de)

ELEKTRONISCHES KOMBINATIONSSCHLOSS MIT VERSCHIEDENEN STUFEN DER ZUGANGSKONTROLLE

Title (fr)

VERROU À COMBINAISON ÉLECTRONIQUE AVEC DIFFÉRENTS NIVEAUX DE COMMANDE D'ACCÈS

Publication

**EP 3682074 A4 20210609 (EN)**

Application

**EP 18853991 A 20180309**

Priority

- US 201715700502 A 20170911
- CN 2018078587 W 20180309

Abstract (en)

[origin: WO2019047494A1] A combination lock (10) has a touch panel (70) to receive a keypad entry code (30-39) indicative of a combination code for unlocking the lock with various access levels, including a first level and a second level. The combination lock (10) is also arranged to receive the combination code from a mobile device (700) via wireless signals. The combination lock (10) also has an independent key-lock mechanism for unlocking the lock with a key. The mobile device (700) has an application icon, when activated, prompting the wireless signals indicative of the combination code. The mobile device (700) also has a deactivation icon and a re-activation icon associated with the combination code of the first level. The deactivation icon causes the disablement of the touch panel (70) and the key-lock mechanism when activated. The re-activation icon terminates the disablement of the touch panel (70) and the key-lock mechanism when activated.

IPC 8 full level

**E05B 37/22** (2006.01); **E05B 47/00** (2006.01); **E05B 49/02** (2006.01); **E05B 67/00** (2006.01); **E05B 67/22** (2006.01); **E05B 67/24** (2006.01); **G07C 9/00** (2020.01)

CPC (source: EP)

**E05B 47/0012** (2013.01); **E05B 67/22** (2013.01); **G07C 9/00666** (2013.01); **G07C 9/00817** (2013.01); **G07C 9/00896** (2013.01); **E05B 67/24** (2013.01); **G07C 2209/04** (2013.01)

Citation (search report)

- [A] US 2013120110 A1 20130516 - KALOUS D SCOTT [US], et al
- [A] US 2017009491 A1 20170112 - NGUYEN MY T [VN], et al
- [A] WO 2016085529 A1 20160602 - HENDERSON KEVIN [US]
- [A] US 2016307380 A1 20161020 - HO HARVEY [US], et al
- See references of WO 2019047494A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2019047494 A1 20190314**; CN 110945199 A 20200331; CN 110945199 B 20201211; EP 3682074 A1 20200722; EP 3682074 A4 20210609; EP 3682074 B1 20220608; JP 2020528118 A 20200917; JP 6782048 B2 20201111

DOCDB simple family (application)

**CN 2018078587 W 20180309**; CN 201880041628 A 20180309; EP 18853991 A 20180309; JP 2020512559 A 20180309