



(11)

EP 4 234 854 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
15.11.2023 Bulletin 2023/46

(51) International Patent Classification (IPC):
E05B 45/06 (2006.01) **G08B 13/06** (2006.01)
E05B 47/00 (2006.01)

(43) Date of publication A2:
30.08.2023 Bulletin 2023/35

(52) Cooperative Patent Classification (CPC):
E05B 45/06; G08B 13/06; E05B 2047/0058;
E05B 2047/0067

(21) Application number: 23174392.3

(22) Date of filing: 17.03.2020

(84) Designated Contracting States:
**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**

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(30) Priority: 21.03.2019 DK BA201900020 U

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(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
20713855.3 / 3 942 128

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(54) **A SMART LOCK FOR OPERATING A DOOR LOCK AND AN ALARM INSTALLATION WITH SUCH SMART LOCK AND A CENTRAL UNIT**

(57) The invention relates to a smart lock (10) adapted to be mounted on a door (1), comprising a battery (20), an accelerometer (46) and an RF module (48) each located inside a housing (12), the housing (12) arranged to prevent access to the battery (20), the accelerometer (46) and an RF module (48) whilst the smart lock (10) is mounted on a door (1), the accelerometer (46) and the RF module (48) arranged to provide a RF tamper alert signal if the smart lock (10) is removed from the door (1).

The invention also provides an alarm installation comprising a central unit (52) and such a smart lock (10) wherein the central unit (52) is adapted for evaluating RF tamper alert signals received via the RF module (48) in order to distinguish between at least two of the following situations: a rotation of the smart lock (10) about a central axis, a tilting of the smart lock (10) about a horizontal axis which is perpendicular to the central axis, rotation of the door (1) to which the smart lock (10) is mounted, vibrations resulting from an interaction with the smart lock (10), shocks resulting from an interaction with the door (1), stop of the door (1) in an open position, closing of the door (1), and a predefined sequence of knocks on the door (1).

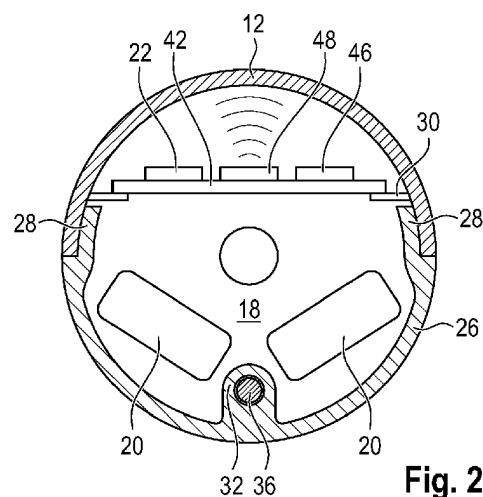


Fig. 2



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EPO FORM 1503 03/82 (P04C01)

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