

Title (en)
SECURITY LOCK AND FLAT KEY ASSEMBLY

Title (de)
SICHERHEITSSCHLOSS UND FLACHSCHLÜSSELANORDNUNG

Title (fr)
ENSEMBLE DE SERRURE DE SÉCURITÉ ET DE CLÉ PLATE

Publication
EP 3658724 A1 20200603 (FR)

Application
EP 18759163 A 20180726

Priority
• FR 1757112 A 20170726
• FR 2018051913 W 20180726

Abstract (en)
[origin: WO2019020944A1] The invention concerns a flat-key lock assembly comprising: a stator (12) having a cylindrical recess and a blind hole (28), said stator (12) comprising a plurality of locking pins (62); a rotor (18) mounted to rotate inside said cylindrical recess, said rotor (18) comprising a plurality of radial recesses (66) opening to the outside in order to allow said locking pins (62) to extend into said radial recesses (66), the rotor (18) further comprising a ball (58) and an immobilisation member (42) that can move in rotation in order to hold the ball (58) protruding from the rotor (18); and, a flat key (80) for pushing back said locking pins (62) to the outside of the rotor (18) and, simultaneously, controlling said movable immobilisation member (42) in order to allow said ball (58) to retract inside the rotor (18).

IPC 8 full level
E05B 27/00 (2006.01); **E05B 19/00** (2006.01); **E05B 19/06** (2006.01); **E05B 19/08** (2006.01)

CPC (source: EP)
E05B 19/0035 (2013.01); **E05B 19/0052** (2013.01); **E05B 27/0042** (2013.01)

Citation (search report)
See references of WO 2019020944A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2019020944 A1 20190131; EP 3658724 A1 20200603; EP 3658724 B1 20210526; ES 2878302 T3 20211118; FR 3069565 A1 20190201; FR 3069565 B1 20210108; HR P20211074 T1 20211001; HU E055135 T2 20211129; PL 3658724 T3 20211122; RS 62131 B1 20210831; SI 3658724 T1 20211130

DOCDB simple family (application)
FR 2018051913 W 20180726; EP 18759163 A 20180726; ES 18759163 T 20180726; FR 1757112 A 20170726; HR P20211074 T 20210706; HU E18759163 A 20180726; PL 18759163 T 20180726; RS P20210835 A 20180726; SI 201830309 T 20180726