

Title (en)

HIGH SECURITY CYLINDER LOCK AND KEY FOR THE SAME

Title (de)

HOCHSICHERES ZYLINDERSCHLOSS UND SCHLÜSSEL DAFÜR

Title (fr)

SERRURE À BARILLET DE HAUTE SÉCURITÉ ET CLÉ POUR CETTE DERNIÈRE

Publication

EP 2976480 A1 20160127 (EN)

Application

EP 14732411 A 20140313

Priority

- IT BO20130122 A 20130322
- IT 2014000072 W 20140313

Abstract (en)

[origin: WO2014147654A1] Apparatus comprising a lock and the key for the said lock in which the key offers an improved security against the unauthorized duplication because it comprises a moveable element that on its own surface carries bi-dimensional shape-type ciphers that are strongly interdependent with a further mono-dimensional cipher that is represented by the relative position between the moveable element and the part of the key that is coupled to the same element; and in which the lock comprises a mechanism for verifying the ciphers on the moveable element by checking the proper matching between the bi-dimensional shape-type ciphers and their own conjugate shapes through a powertrain configuration that is intrinsically resistant to the possibility of being manipulated using "bumping" (impulse) style techniques, and in which the said mechanism is implemented according to a technical solution can be industrially manufactured easily and with reduced production costs.

IPC 8 full level

E05B 27/00 (2006.01); **E05B 35/00** (2006.01)

CPC (source: EP)

E05B 27/0042 (2013.01); **E05B 27/0082** (2013.01); **E05B 35/003** (2013.01)

Citation (search report)

See references of WO 2014147654A1

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 2014147654 A1 20140925; EP 2976480 A1 20160127; EP 2976480 B1 20171227; ES 2664124 T3 20180418; IT BO20130122 A1 20140923

DOCDB simple family (application)

IT 2014000072 W 20140313; EP 14732411 A 20140313; ES 14732411 T 20140313; IT BO20130122 A 20130322