

Title (en)

SYSTEM FOR CLOSING A CYLINDER INSERT, KEY FOR THE SYSTEM AND BLANK KEY INTENDED FOR MAKING SUCH A KEY

Title (de)

SCHLIESSSYSTEM, SCHLÜSSEL FÜR EIN SOLCHES SYSTEM UND SCHLÜSSELROHLING ZUR HERSTELLUNG EINERS SOLCHEN SCHLÜSSELS

Title (fr)

SYSTÈME DE VERROUILLAGE, CLÉ POUR UN TEL SYSTÈME ET ÉBAUCHE DE CLÉ

Publication

EP 4379172 A1 20240605 (EN)

Application

EP 23209146 A 20231110

Priority

PL 44284122 A 20221115

Abstract (en)

The invention provides a system for closing a cylinder insert, a key for the system and a blank key intended for making an target key or duplicates thereof. The system for closing a cylinder insert comprises a key 1 and a cylinder insert 2. A second end 32 of a locking element 3 and a guiding channel 14 which has the form of an undercut groove, form a matchingly shaped slideable connection. The parallel longitudinal lines that define the profile of the second end 32 of the locking element 3 are inclined at an angle β , different than 0° relative to the insertion direction of the key 1, and the parallel longitudinal lines that define the guiding channel profile 14 made in the shank 12 of the key 1 are inclined at an angle α , different than 0° relative to the insertion direction of the key 1, and the angles α and β are in the same plane and may have various values, and only in the case when $\alpha = \beta$ it is possible to insert the key 1 into the key channel 23 of the cylinder insert 2 to the full depth and to unlock the locking element 3.

IPC 8 full level

E05B 19/00 (2006.01); **E05B 27/00** (2006.01)

CPC (source: EP PL)

E05B 19/00 (2013.01 - PL); **E05B 19/0035** (2013.01 - EP); **E05B 19/0041** (2013.01 - EP); **E05B 27/00** (2013.01 - PL); **E05B 27/0042** (2013.01 - EP)

Citation (applicant)

- DE 3225952 A1 19840112 - KARRENBURG WILHELM [DE]
- US 5819566 A 19981013 - EDEN JR CHARLES W [US]
- WO 2011116920 A1 20110929 - ABUS PFAFFENHAIN GMBH [DE], et al

Citation (search report)

- [AD] US 5819566 A 19981013 - EDEN JR CHARLES W [US]
- [A] EP 2078808 A2 20090715 - WINKHAUS FA AUGUST [DE]
- [A] US 2012073340 A1 20120329 - WIDEN BO [SE]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4379172 A1 20240605; PL 442841 A1 20240520

DOCDB simple family (application)

EP 23209146 A 20231110; PL 44284122 A 20221115