

Title (en)

LOCK DEVICE WITH A LOCK CYLINDER AND A KEY

Title (de)

SCHLIESSVORRICHTUNG MIT EINEM SCHLIESSZYLINDER UND MIT EINEM SCHLÜSSEL

Title (fr)

DISPOSITIF DE FERMETURE CONSTITUE D'UN BARILLET ET D'UNE CLE

Publication

EP 1922461 B1 20100224 (DE)

Application

EP 06776818 A 20060812

Priority

- EP 2006008004 W 20060812
- DE 102005042618 A 20050907

Abstract (en)

[origin: US2009266123A1] The invention relates to a lock device comprising a key and a lock cylinder, said lock cylinder comprising a fixed cylinder housing and a cylinder core mounted to rotate therein. The key shaft (10.3) has an edge profile and may be inserted in a key way of the cylinder core in which displaceable tumblers (41, 42) are located transverse to the above. The key shaft (10.3) has profiled recesses running in the longitudinal direction, comprising a pair of follow points for each tumbler (41, 42) for coding the key, whilst the tumbler (41, 42) has a pair of counter follow points which are the basis of the corresponding counter coding. According to this invention, a space-saving design of the lock device may be achieved with a large range of variation for the coding wherein both follow points are on the key shaft (10.3) in the form of recesses, arranged on opposing lateral surfaces to an edge (57.2; 57.3) of the edge profile of the key shaft (10.3). A web (22; 23) is thus generated in the corner region of the edge profile between both recesses. Said web functions a code web (22; 23), as the opposing web edges serve for the coding. The corresponding tumblers (41, 42) have a cut-out, which in use enclose the code web (22; 23) on opposing web edges. The lateral limits of the cut-out form the counter follow points in the tumblers (41, 42).

IPC 8 full level

E05B 29/00 (2006.01); **E05B 19/00** (2006.01)

CPC (source: EP US)

E05B 19/0029 (2013.01 - EP US); **E05B 29/00** (2013.01 - EP US); **Y10T 70/7508** (2015.04 - EP US); **Y10T 70/7559** (2015.04 - EP US); **Y10T 70/7565** (2015.04 - EP US); **Y10T 70/7599** (2015.04 - EP US); **Y10T 70/7695** (2015.04 - EP US); **Y10T 70/7881** (2015.04 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2009266123 A1 20091029; US 7870771 B2 20110118; AT E458886 T1 20100315; CN 101305146 A 20081112; CN 101305146 B 20120215; DE 102005042618 A1 20070308; DE 502006006268 D1 20100408; EP 1922461 A1 20080521; EP 1922461 B1 20100224; WO 2007028483 A1 20070315

DOCDB simple family (application)

US 99161706 A 20060812; AT 06776818 T 20060812; CN 200680041542 A 20060812; DE 102005042618 A 20050907; DE 502006006268 T 20060812; EP 06776818 A 20060812; EP 2006008004 W 20060812