Title (en)
LOCKING SYSTEM WITH SECURITY TURNING KEYS

Title (de)
SCHLIESSSYSTEM MIT SICHERHEITS-WENDESCHLÜSSELN

Title (fr)
SYSTÈME DE FERMETURE AVEC CLÉS RÉVERSIBLES DE SÉCURITÉ

Publication
EP 2094922 A1 20090902 (DE)

Application
EP 07845625 A 20071212

Priority
• CH 2007000628 W 20071212
• CH 20752006 A 20061221

Abstract (en)
[origin: WO2008074171A1] The locking system has security turning keys (S) and associated cylinders (Z). At the key tips, the keys and also the blanks (S1) thereof have a concave recess (10) which interacts with a convex formation (20) on a displaceable counterpart (21) in the cylinders such that, when the key is entirely inserted, the concave recess (10) rests flat on the convex formation (20) on the counterpart, and a key without said concave recess is locked out (a) by the convex formation of the counterpart, thus preventing complete insertion, and such that a locking or switching function is made possible by the counterpart. Starting from the key tip, the concave recess (10) first of all has a first inclination (N1) and subsequently a second inclination (N2) to the key axis, with the second inclination being greater than the first inclination. These concave recesses (10) which are difficult to copy are already provided on the blanks. This provides protection for the blanks, and the security and permutation capacity of the locking system are increased.

IPC 8 full level
E05B 19/00 (2006.01); **E05B 9/10** (2006.01); **E05B 17/00** (2006.01); **E05B 27/00** (2006.01)

CPC (source: EP)
E05B 19/0017 (2013.01); **E05B 27/0042** (2013.01); E05B 9/10 (2013.01); E05B 17/0004 (2013.01)

Citation (search report)
See references of WO 2008074171A1

Cited by
WO2023041517A1

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2008074171 A1 20080626; AU 2007335177 A1 20080626; AU 2007335177 B2 20140612; CN 101595269 A 20091202; CN 101595269 B 20130626; EP 2094922 A1 20090902; EP 2094922 B1 20151202; HK 1135744 A1 20100611; IL 199125 A0 20100328; IL 199125 A 20130829; JP 2010513753 A 20100430; JP 5382349 B2 20140108; RU 2009127522 A 20110127; RU 2479703 C2 20130420; UA 96465 C2 20111110

DOCDB simple family (application)
CH 2007000628 W 20071212; AU 2007335177 A 20071212; CN 200780047699 A 20071212; EP 07845625 A 20071212; HK 09112373 A 20091231; IL 19912509 A 20090603; JP 2009541726 A 20071212; RU 2009127522 A 20071212; UA A200907147 A 20071212