

Title (en)
Tumbler lock-key-assembly

Title (de)
Zuhaltungsschloss und Schlüssel

Title (fr)
Serrure à gorges et clé

Publication
EP 1035278 B1 20050601 (EN)

Application
EP 00301854 A 20000307

Priority
FI 990519 A 19990310

Abstract (en)
[origin: EP1035278A2] A combination of a disc tumbler lock and a key (8) therefor provided with key-bit means (8b, 8c), the lock including a lock case (1) having therein a lock bolt (3) movable back and forth and provided with a locking pin (4) or the like and a set of tumbler discs (5) movable by turning the key and which are provided with a locking channel arranged to co-operate with the locking pin (4) to control the transfer movements of the lock bolt (3). The locking channel has at least a first (5a) and a second (5b) branch extending transversely relative to the transfer movement of the lock bolt and a third branch (5c) connecting the first and second branches, whereby the key-bit means (8b) of the key has for each tumbler disc a combination surface (8c) which, when the key is turned in the lock, moves the tumbler disc (5) in the direction of the first (5a) and second (5b) branch to select the locking combination. The key-bit means (8b) contains a guide member (8d) which affects the lock bolt (3) so that, in the final stage of the selecting movement of the tumbler disc (5), it guides the locking pin (4) into the third branch (5c) of the locking channel. The third branch (5c) of the locking channel also has at least one guiding means (5f,5g) which is arranged to prevent movement of the locking pin (4) through the third channel (5c) if the combination surface of the key is incorrect. <IMAGE>

IPC 1-7
E05B 21/00

IPC 8 full level
E05B 21/00 (2006.01); **E05B 19/06** (2006.01); **E05B 25/00** (2006.01); **E05B 25/08** (2006.01)

CPC (source: EP)
E05B 21/00 (2013.01)

Citation (examination)
EP 0617184 B1 19981118 - ABLOY SECURITY LTD OY [FI]

Cited by
WO2012107856A1; ITTO20100199A1; ITTO20100102A1; RU2493342C2; ITMI20081838A1; ITMI20110206A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1035278 A2 20000913; EP 1035278 A3 20020109; EP 1035278 B1 20050601; AT E296935 T1 20050615; CZ 2000879 A3 20001115; CZ 298968 B6 20080326; DE 60020425 D1 20050707; DE 60020425 T2 20060427; DK 1035278 T3 20050905; EE 04687 B1 20060815; EE 200000200 A 20001016; ES 2241551 T3 20051101; FI 114329 B 20040930; FI 990519 A0 19990310; FI 990519 A 20000911; HU 0001131 D0 20000528; HU 225754 B1 20070828; HU P0001131 A2 20010528; NO 20001245 D0 20000309; NO 20001245 L 20000911; PL 198808 B1 20080731; PL 338845 A1 20000911; PT 1035278 E 20050930; RU 2230865 C2 20040620; SI 1035278 T1 20051031; UA 64764 C2 20040315

DOCDB simple family (application)
EP 00301854 A 20000307; AT 00301854 T 20000307; CZ 2000879 A 20000309; DE 60020425 T 20000307; DK 00301854 T 20000307; EE P200000200 A 20000302; ES 00301854 T 20000307; FI 990519 A 19990310; HU P0001131 A 20000310; NO 20001245 A 20000309; PL 33884500 A 20000307; PT 00301854 T 20000307; RU 2000105773 A 20000309; SI 200030698 T 20000307; UA 200031350 A 20000307