

Title (en)
Flat key and/or cylinder lock

Title (de)
Flachschlüssel und bzw. oder Schliesszylinder

Title (fr)
Clef plate et/ou serrure à barillet

Publication
EP 0633374 B1 19990818 (DE)

Application
EP 94890114 A 19940705

Priority
AT 133593 A 19930707

Abstract (en)
[origin: EP0633374A1] A lock cylinder with a cylinder housing (1), with a cylinder plug (2) and with a keyway (3) has a rotatable body, especially a star wheel (7), which engages in the latter and is mounted in the cylinder plug (2) and which has a rotary shaft (10) and is displaceable together with its rotary shaft (10) in the direction of height of the keyway (3). In the blocking position, the rotary shaft (10) projects upwards or downwards beyond the cylinder plug (2) and engages into a housing bore (12, 13). A flat key (5) has a toothing oblique relative to the insertion direction, especially a row of holes along a hole track (8, 8', 8'', 8'''), into which, when the key (5) is inserted into the keyway (3), the rotatable body engages positively in the manner of the kinematics of a pinion along a rack. By means of bevels in the region of the toothing, especially by means of oblique bores (9) of the row of holes (8, 8', 8'', 8'''), or by means of bevels (14) on the engagement surfaces of the rotatably mounted body, especially on the end faces of arms of the star wheel (7), a lifting movement occurs during engagement for the purpose of controlling the height of the rotary shaft (10) acting as a blocking pin. Instead of the oblique arrangement of the row of holes, it is sufficient to offset at least one hole (9') in height in relation to the preceding hole. Furthermore, the hole (9'') can also have a base surface (15) which is oblique, as seen in the insertion direction, and along which the star wheel (7) ascends. <IMAGE>

IPC 1-7
E05B 35/00; **E05B 27/00**; **E05B 19/00**

IPC 8 full level
E05B 27/10 (2006.01); **E05B 19/00** (2006.01); **E05B 27/00** (2006.01); **E05B 35/00** (2006.01)

CPC (source: EP)
E05B 19/00 (2013.01); **E05B 27/0039** (2013.01); **E05B 35/006** (2013.01)

Cited by
EP2133491A1; SG158038A1

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EP 0633374 A1 19950111; **EP 0633374 B1 19990818**; AT 399531 B 19950526; AT A133593 A 19941015; CZ 162494 A3 19950215; DE 59408634 D1 19990923; ES 2138063 T3 20000101; HU 217374 B 20000128; HU 9402036 D0 19940928; HU T68129 A 19950529; PL 175103 B1 19981130; PL 304139 A1 19950109

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