

Title (en)
LOCKING DEVICE WITH AT LEAST ONE PROFILED LOCKING CYLINDER

Publication
EP 0023604 B1 19850327 (DE)

Application
EP 80103977 A 19800710

Priority
DE 2931653 A 19790803

Abstract (en)
[origin: EP0023604A1] 1. Locking device having at least one profiled lock cylinder, this comprising a lock cylinder housing (10) with cock profile and a lock cylinder core (20), mounted rotatably in a bore (16) of the lock cylinder housing (10), with a key passage (22) formed for the reception of a flat key (26), where in the profile sack (14) of the lock cylinder housing (10) and in the lock cylinder core (20) housing pin bores (50, 52) and core pin bores (54, 56) are provided in two adjacent longitudinal planes (E, F) each directed in a row one behind the other towards the narrow side of the key passage (22), for the reception of springloaded pin tumbler pairs (58, 62; 60, 64), the core pins (62, 64) of which co-operate at their radially inner ends with two notch rows (68, 70) arranged in adjacent narrow side regions of the flat key (26), while furthermore the pin tumbler bores (50, 54; 52, 56) of the two rows are offset in relation to one another in the longitudinal direction of the lock cylinder core (20), and where finally the control faces (68c, 70c) of the notches (68, 70) of the flat key (26) stand substantially perpendicularly to the respective longitudinal plane (E, F) accommodating the pin tumbler pairs (58, 62; 60, 64), characterised by the combination of the following features : a) the longitudinal planes (E, F) containing the housing pin bores and core pin bores (50, 52; 54, 56) of the individual rows are inclined in relation to one another at an acute angle (α) converging towards the lock narrow side, the apex of which angle coincides approximately with the axis (O) of the cylinder core and the angle bisector of which coincides approximately with the plane (S) of symmetry of the lock cylinder, which passes through the cylinder core axis (O) ; b) the cross-sectional profile of the flat key (26) is branched on the narrow side forming a longitudinal recess (42) and the lock cylinder core (20) comprises a filler rib (44) engaging in the longitudinal recess (42) between the profile branches ; c) the key notches (68, 70) are continued at least in part by blind notches in the other profile branch in each case.

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IPC 8 full level
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Citation (examination)
GB 517655 A 19400205 - HAROLD GILBERT RAMSELL, et al

Cited by
EP0567832A1; EP0237799A3; CN102493714A; WO9923333A1

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EP 0023604 A1 19810211; **EP 0023604 B1 19850327**; AT E12419 T1 19850415; DE 2931653 A1 19810205; DE 2931653 C2 19821118; ES 252349 U 19811001; ES 252349 Y 19820401; ES 259248 U 19820116; ES 259248 Y 19820701; YU 181280 A 19830430

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