

Title (en)
Lock and associated key

Title (de)
Schliesszylinder mit zugehörigem Schlüssel

Title (fr)
Serrure avec clé associée

Publication
EP 1870544 A1 20071226 (EN)

Application
EP 06425420 A 20060620

Priority
EP 06425420 A 20060620

Abstract (en)
A lock (1) with associated key (6) of the type that comprises a stator (2) provided with a substantially cylindrical longitudinal cavity (3) for accommodating a rotor (4) with a longitudinal recess (5) for the insertion of a coded key (6). The rotor (4) and the stator (2) comprise a plurality of channels (7), which are substantially aligned and face each other when the cylinder (1) is in the closed configuration: the containment channels (7) accommodate respective primary pins (8), secondary pins (9) and any elastic means (7a) designed to prevent the rotation of the rotor (4) within the stator (2) in the absence of the key (6) in the longitudinal recess (5). The stator (2) and the rotor (3) have at least one transverse duct (10), which is oblique with respect to the channels (7), for slidably accommodating a respective stud (11) whose head (12) protrudes into the longitudinal recess (5). The key (6) is provided with at least one front bevel (13), which in the configuration for the insertion of the key (6) in the recess (5) faces, and is aligned with, the head (12) of the stud (11), for the retraction of the stud (11) into the respective duct (10).

IPC 8 full level
E05B 27/00 (2006.01); **E05B 17/16** (2006.01)

CPC (source: EP)
E05B 27/0042 (2013.01); **E05B 19/0052** (2013.01)

Citation (search report)
• [X] GB 2314582 A 19980107 - BANHAM PATENT LOCKS LTD [GB]
• [X] GB 2376500 A 20021218 - WOOD DUNCAN STEPHEN COUTTS [GB]
• [X] US 3590615 A 19710706 - SCHULTZ JERALD
• [X] US 4196604 A 19800408 - VOROB ARTHUR [US]
• [A] DE 10000528 A1 20010712 - WILKA SCHLIESTECHNIK GMBH [DE]

Cited by
EP2497882A3; CN103132801A; CN101881097A; CN102995971A; WO2014005568A1

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

Designated extension state (EPC)
AL BA HR MK YU

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