

Title (en)
BREAK-IN RESISTANT LOCK CYLINDER

Title (de)
EINBRUCHSSICHERER SCHLIESSZYLINDER

Title (fr)
SERRURE CYLINDRIQUE ANTI-EFFRACTION

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Application
EP 15787693 A 20150703

Priority
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Abstract (en)
[origin: WO2017006356A1] A break-in resistant lock cylinder (1) for a cylinder lock, comprising a stator (3) which is provided with a substantially cylindrical accommodation (4) for a rotor (5). The rotor (5) and the stator (3) are affected by at least one channel (6) for at least one respective pin (7), which is slideably moveable inside it. The arrangement, for locking, of the at least one pin (7) partly in the rotor (5) and partly in the stator (3) results in the immobilization of the rotor (5); the arrangement, for opening, with the alignment of an end edge (8) of the at least one pin (7) with the interface surface between stator (3) and rotor (5), which is obtained by way of the insertion of an adapted key (2) with a contoured profile into an opening (9) of the rotor (5) facing onto the at least one channel (6), results in the free rotation of the rotor (5) with respect to the stator (3). The at least one pin (7) comprises an ogive (10) which is provided with a contoured cavity (11) and a peg (12) which is provided with two mutually opposite protruding appendages (13, 14) and with a central rim (15) acting as an abutment shoulder. The at least one channel (6) of the rotor (5) comprises a first section with a substantially larger diameter than the diameter of the central rim (15) and a second section with a substantially smaller diameter than the diameter of the central rim (15) and larger than the diameter of a first protruding appendage (13). The front of the first protruding appendage (13), upon the insertion of the key (2) into the opening (9) of the rotor (5), is accommodated in a respective profiled groove (18), which has different depths at different longitudinal sections of the key (2), with consequent substantially complete insertion of the second protruding appendage (14) into the cavity (11) of the ogive (10) according to the open arrangement.

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