

Title (en)
BREAK-IN RESISTANT CYLINDER

Title (de)
EINBRUCHSSICHERER SCHLOSSZYLINDER

Title (fr)
CYLINDRE ANTIEFFRACTION

Publication
EP 3022371 B1 20171115 (EN)

Application
EP 13762585 A 20130715

Priority
IT 2013000198 W 20130715

Abstract (en)
[origin: WO2015008303A1] A break-in resistant cylinder (1) comprising a stator (3) provided with a substantially cylindrical receptacle (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 can move slidingly within it. The arrangement for retention has the least one pin (7) partly in the rotor (5) and partly in the stator (3), causing the locking of the rotor (5). The open arrangement provides for alignment of an end edge (8) of the at least one pin (7) with the interface surface between the stator (3) and the rotor (5), obtained by means of the insertion of an adapted key (2) having a contoured profile in an opening (9) of the rotor (5) that faces the at least one channel (6) and causes the free rotation of the rotor (5) with respect to the stator (3). The at least one pin (7) comprises an ogive (10) provided with a contoured cavity (11) and a coding part (12) provided with two mutually opposite protruding tabs (13, 14) and with a substantially spherical central portion (15). The at least one channel (6) of the rotor (5) comprises a first part that has a substantially larger diameter than the substantially spherical central portion (15) and a second part whose diameter is substantially smaller than the diameter of the substantially spherical portion (15) and larger than the diameter of a first protruding tab (13); the front of the first protruding tab (13), upon the insertion of the key (2) in the opening (9) of the rotor (5), is accommodated within a respective profiled slot (18) with consequent substantial complete insertion of the second protruding tab (14) within the cavity (11) of the ogive (10) according to the open arrangement.

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