

Title (en)
CYLINDER LOCK AND KEY THEREOF

Title (de)
ZYLINDERSCHLOSS UND SCHLÜSSEL DAFÜR

Title (fr)
SERRURE À BARILLET ET SA CLÉ

Publication
EP 4115037 B1 20240207 (EN)

Application
EP 20751317 A 20200305

Priority
IT 2020000029 W 20200305

Abstract (en)
[origin: WO2021176482A1] A cylinder lock (1) and a key (2) thereof, the lock (1) comprising a stator (3) within which a rotor (4) can rotate which is provided with a longitudinal channel (5) inside which respective pins (6, 7) are arranged substantially mutually opposite. The channel (5) is adapted for the insertion of a key (2) provided with a seat (8) for the accommodation of a respective lever (9) which can be oriented freely and is adapted to actuate the pins (6, 7). At least one of the pins (6) is constituted by a concave ogive (10) and a contoured grub (11) which has an end (12) whose shape and dimensions are complementary to those of the internal cavity (13) of the ogive (10). Axially acting elastic means (14) are interposed between the ogive (10) and the grub (11) for their respective mutual spacing in conditions of absence of external forces applied to the grub (11) toward the ogive (10). The stator (3) comprises a recess (15) whose shape and dimensions are complementary to those of the terminal front of the ogive (10) for the temporary accommodation of the front; the recess (15) is aligned with the hole (16) of the rotor (4) within which the ogive (10) and the grub (11) are arranged. At least one elastic element (17) is interposed between the stator (3) and the at least one additional pin (7) for the forcing thereof within the longitudinal channel (5). Following the insertion of the key (2) in the longitudinal channel (5), the end of the pin (7) and a head (18) of the grub (11) abut against the lever (9), with consequent partial inclination thereof with respect to the key (2) in the configuration for free translation of the pin (6) within the hole (16) of the rotor (4), without protrusion of the front of the ogive (10) with respect to the contour of the rotor (4) during the rotation thereof.

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