

Title (en)  
CYLINDER LOCK AND KEY IN COMBINATION WITH THE CYLINDER LOCK

Title (de)  
SCHLIESSZYLINDER UND SCHLÜSSEL MIT SCHLIESSZYLINDER

Title (fr)  
SERRURE À CYLINDRE ET CLÉ AVEC SERRURE À CYLINDRE

Publication  
**EP 3097243 A1 20161130 (EN)**

Application  
**EP 15734733 A 20150409**

Priority  
IT 2015000104 W 20150409

Abstract (en)  
[origin: WO2016162891A1] A cylinder lock (1) comprising a fixed stator (3) and a rotor (4), which is accommodated in a respective cavity (5) of the stator (3) and can rotate with respect to the stator (3). The rotor (4) comprises a substantially longitudinal space (6) for the functional accommodation of a respective key (2). Between the rotor (4) and the stator (3) there are respective accommodation channels for translating encoding elements: the channels are open onto the substantially longitudinal space (6). The substantially longitudinal space (6) comprises at least one protruding ridge (7) which is arranged substantially transversely with respect to the space (6) and divides the two far side portions of the space (6). In at least one section of the stator (3) and the rotor (4) there is at least one secondary conduit (8) for the slideable accommodation of at least one pin (9) the end tip (10) of which protrudes into one of the two far side portions of the space (6) and the base end of which is aligned with the discontinuity surface between stator (3) and rotor (4). The at least one pin (9) translates, during the insertion of the key (2) into the space (6), within the at least one secondary conduit (8) toward the stator (3), and the end tip (10) of the pin (9) is accommodated, when the key (2) is fully inserted in the space (6), in a respective recess (11) of the key (2) with consequent alignment of its base end with the discontinuity surface between stator (3) and rotor (4).

IPC 8 full level  
**E05B 27/00** (2006.01); **E05B 15/16** (2006.01); **E05B 19/00** (2006.01)

CPC (source: EP)  
**E05B 15/1614** (2013.01); **E05B 19/0041** (2013.01); **E05B 27/0007** (2013.01); **E05B 27/0057** (2013.01); **E05B 27/0071** (2013.01)

Citation (search report)  
See references of WO 2016162891A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2016162891 A1 20161013**; EA 033498 B1 20191031; EA 201792243 A1 20180430; EP 3097243 A1 20161130; EP 3097243 B1 20181031

DOCDB simple family (application)  
**IT 2015000104 W 20150409**; EA 201792243 A 20150409; EP 15734733 A 20150409