

Title (en)
LOCK

Title (de)
SCHLOSS

Title (fr)
SERRURE

Publication
EP 3093416 B1 20190703 (DE)

Application
EP 15167680 A 20150513

Priority
EP 15167680 A 20150513

Abstract (en)
[origin: US2016333616A1] A lock includes a housing and a lock mechanism with a dead-bolt disposed in the housing, wherein the dead-bolt is retractable and protrudable between its two terminal positions. The lock further includes at least one bending element disposed in the housing connected to a mechanical component of the lock mechanism at a connecting location, wherein the longest extension of the bending element is defined along a first axis. When the dead-bolt retracts and protrudes, the connecting location of the mechanical component moves along a second axis. The first axis is angled with regard to the second axis, such that when the dead-bolt is displaced into at least one terminal position, the bending element elastically bends and the bending element maintains the lock mechanism in the terminal position.

IPC 8 full level
E05B 15/04 (2006.01); **E05B 65/08** (2006.01); **E05C 1/06** (2006.01)

CPC (source: CN EP US)
E05B 15/0053 (2013.01 - EP US); **E05B 15/04** (2013.01 - US); **E05B 17/2007** (2013.01 - CN); **E05B 63/14** (2013.01 - CN);
E05B 63/18 (2013.01 - CN); **E05B 65/08** (2013.01 - CN); **E05B 65/0876** (2013.01 - EP US); **E05C 1/02** (2013.01 - US);
E05C 1/06 (2013.01 - EP US); **E05B 2015/0413** (2013.01 - EP US); **E05B 2015/0472** (2013.01 - EP US); **E05B 2015/0493** (2013.01 - EP US)

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

DOCDB simple family (publication)
EP 3093416 A1 20161116; EP 3093416 B1 20190703; CN 106150222 A 20161123; CN 106150222 B 20190122; ES 2744649 T3 20200225;
US 10107010 B2 20181023; US 2016333616 A1 20161117

DOCDB simple family (application)
EP 15167680 A 20150513; CN 201610034226 A 20160119; ES 15167680 T 20150513; US 201615002106 A 20160120