

Title (en)
LOGIC UNIT FOR A LOCK ARRANGEMENT

Title (de)
SCHLOSSLOGIKANORDNUNG

Title (fr)
ENSEMBLE LOGIQUE DE SERRURE

Publication
EP 3500714 A1 20190626 (DE)

Application
EP 17754165 A 20170818

Priority
• DE 202016104529 U 20160818
• EP 2017070899 W 20170818

Abstract (en)
[origin: WO2018033611A1] The invention relates to a logic unit for a motor-vehicle-lock arrangement (2), wherein the motor-vehicle-lock arrangement (2) has an arresting mechanism (3) in addition to the logic unit (1), wherein, in the installed state, the motor-vehicle-lock arrangement (2) is coupled mechanically to an exterior door handle (7) and possibly to an interior door handle (8), wherein the logic unit (1) has a lock mechanism (10) and an actuator (11), wherein the lock mechanism (10) can be moved into different lock states by means of the actuator (11), wherein, in the installed state, the arresting mechanism (3) can be opened, in dependence on the mechanical lock states, by mechanical, manual actuation of the exterior door handle (7) and possibly of the interior door handle (8), wherein the lock mechanism (10) has a push-push mechanism (12), having an input element (13) which can be adjusted, by means of the actuator (11), in a pushing movement and an oppositely directed setting movement (15), and having an adjustable switching element (16), which can be moved into at least two switching positions via switching movements (17), wherein, during a pushing movement (14), the switching element (16) is moved from one switching position, over the course of a switching movement (17), into a new switching position, and wherein, during a charging movement (15), the switching element (16) maintains its switching position. It is proposed that the push-push mechanism (12) should have a latching-spring arrangement (18), which secures the switching element (16) in the switching positions with latching action in each case and, during the course of a pushing movement (14) of the input element (13), is subjected to stressing and is engaged and, during the course of a setting movement (15) of the input element (13), is subjected to stressing, but is not engaged.

IPC 8 full level
E05B 79/22 (2014.01); **E05B 15/00** (2006.01); **E05B 81/16** (2014.01); **E05B 81/24** (2014.01); **E05B 81/48** (2014.01)

CPC (source: EP)
E05B 15/0046 (2013.01); **E05B 79/22** (2013.01); **E05B 81/16** (2013.01); **E05B 81/25** (2013.01); **E05B 81/48** (2013.01); **E05B 79/20** (2013.01); **E05B 81/06** (2013.01); **E05B 81/46** (2013.01)

Citation (search report)
See references of WO 2018033611A1

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)
DE 202016104529 U1 20171121; CN 109844246 A 20190604; CN 109844246 B 20210611; EP 3500714 A1 20190626; EP 3500714 B1 20201007; WO 2018033611 A1 20180222

DOCDB simple family (application)
DE 202016104529 U 20160818; CN 201780050822 A 20170818; EP 17754165 A 20170818; EP 2017070899 W 20170818