

Title (en)
LOCK MECHANISM

Title (de)
VERRIEGELUNGSMECHANISMUS

Title (fr)
MÉCANISME DE VERROUILLAGE

Publication
EP 3812538 A1 20210428 (EN)

Application
EP 20203950 A 20201026

Priority
GB 201915554 A 20191025

Abstract (en)
A lock mechanism for locking together first and second relatively moveable components (50,51) comprises a lock body (10) having a bore (31) for receiving a bolt assembly (11) for securing to the two components so that the lock body and bolt assembly are substantially aligned when the components come together. The bolt assembly includes a locking member (36) which carries opposed balls (44) in a transverse bore (43) and which are driven radially outwardly into a groove (22) formed in the bore of the lock body, by an operating pin (18) mounted within the lock body. The locking member (36) is resiliently mounted to have freedom of movement in several directions, to facilitate entry of the locking member into the lock body. A servo motor (26) is arranged to draw the operating pin (18) out of the locking member thereby to allow the balls to move inwardly out of the groove, so releasing the lock.

IPC 8 full level
E05B 15/00 (2006.01); **E05B 63/12** (2006.01); **E05C 17/46** (2006.01)

CPC (source: EP)
E05B 15/0006 (2013.01); **E05B 63/121** (2013.01); **E05C 17/46** (2013.01); **E05B 2015/0235** (2013.01)

Citation (applicant)
• GB 2444933 A 20080625 - CLARKSON LEE [GB]
• US 6077011 A 20000620 - WALKER PHILIP MARVIN [US]

Citation (search report)
• [A] GB 2513135 A 20141022 - WESTON BODY HARDWARE LTD [GB]
• [AD] US 6077011 A 20000620 - WALKER PHILIP MARVIN [US]
• [AD] GB 2444933 A 20080625 - CLARKSON LEE [GB]

Cited by
CN113389440A

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

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EP 3812538 A1 20210428; **EP 3812538 B1 20221130**; GB 201915554 D0 20191211

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EP 20203950 A 20201026; GB 201915554 A 20191025