Title (en)

Remote control door mechanisms

Title (de)

Fernbedienungstürmechanismus

Title (fr)

Mécanisme de commande à distance pour porte

Publication

EP 0939189 A3 20000531 (EN)

Application

EP 99301396 A 19990225

Priority

GB 9803971 A 19980226

Abstract (en)

[origin: GB2344138A] A driving mechanism for a canopy-type up-and-over door has:- driven means for capturing a door bolt and moving the door via the bolt between closed and part-open positions; means for detecting when the door is in the part-open position; and driven means for rotating a counterbalance shaft to move the door between part-open and open positions. Horizontal, endless chain 35 engages and holds upper door bolt 41. The motor-driven chain bodily moves the bolt, and thus moves the door to the part-open position. The chain then disengages bolt 41 while the bolt allows lever 39, detecting the part-open position, to pivot to engage a clutch with the counterbalance shaft. The same motor then rotates the shaft to a door-open position. The chain in reverse completes door closing by engaging the bolt, while disengaging the clutch. The chain and shaft may be separately driven.

IPC 1-7 (main, further and additional classification)

E05F 15/16; E05D 15/44

IPC 8 full level (invention and additional information)

E05F 15/16 (2006.01); E05D 15/44 (2006.01)

CPC (invention and additional information)

E05F 15/684 (2013.01); E05D 13/1261 (2013.01); E05D 15/445 (2013.01); E05Y 2900/106 (2013.01)

Citation (search report)

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- [YA] GB 2305466 A 19970409 - VEGA LTD [GB]
- [A] EP 0524900 A1 19930127 - BUBENDORFF RICHARD [FR]
- [A] US 4472910 A 19840925 - IHA KIYOSHI [US]

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family

GB 0004019 D0 20000412; GB 2344138 A 20000531; GB 2344138 B 20001004; EP 0939189 A2 19990901; EP 0939189 A3 20000531; GB 2334750 A 19990901; GB 9803971 D0 19980422