

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  
**E05F 15/16**; **E05D 15/44**

IPC 8 full level  
**E05F 15/16** (2006.01); **E05D 15/44** (2006.01)

CPC (source: EP)  
**E05F 15/684** (2015.01); **E05D 13/1261** (2013.01); **E05D 15/445** (2013.01); **E05Y 2900/106** (2013.01)

Citation (search report)  
• [XY] FR 2624186 A3 19890609 - MUELLER GUENTER [DE]  
• [YA] GB 2305466 A 19970409 - VEGA LTD [GB]  
• [A] EP 0524900 A1 19930127 - BUBENDORFF RICHARD [FR]  
• [A] US 4472910 A 19840925 - IHA KIYOSHI [US]

Cited by  
EP3141686A1; ITUB20153562A1; US7397342B2; WO0179640A3; US6561255B1; US6568454B1; US6845804B2; US6739372B2; US6851465B2; US6880609B2; US7143804B2; US7246647B2

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 (publication)  
**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

DOCDB simple family (application)  
**GB 0004019 A 19980226**; EP 99301396 A 19990225; GB 9803971 A 19980226