

Title (en)
Compact actuator

Title (de)
Kompakt-Aktuator

Title (fr)
Actionneur compact

Publication
EP 1353031 B2 20100526 (EN)

Application
EP 02007883 A 20020409

Priority
EP 02007883 A 20020409

Abstract (en)
[origin: EP1353031A1] An actuator (1) for moving an object from one position to a second position and vice versa, and if desired, any position therebetween. The actuator (1) comprises a motor (62) that powers directly or indirectly a spindle drive (27). A chain (12) with one end connected to the spindle drive (27) and the other end being intended for connection to a window element. A movable exit guide (70) is provided with a chain guide surface (71), said chain guide being movable between a retracted position and an extended position in which it extends from said actuator.
<IMAGE>

IPC 8 full level
E05F 15/12 (2006.01); **E05F 11/06** (2006.01); **E05F 11/34** (2006.01)

CPC (source: EP)
E05C 9/10 (2013.01); **E05C 17/36** (2013.01); **E05F 15/619** (2015.01); **E05F 15/622** (2015.01); **E05F 11/06** (2013.01); **E05F 11/34** (2013.01); **E05Y 2201/11** (2013.01); **E05Y 2201/656** (2013.01); **E05Y 2201/72** (2013.01); **E05Y 2201/724** (2013.01); **E05Y 2600/40** (2013.01); **E05Y 2600/41** (2013.01); **E05Y 2900/132** (2013.01); **E05Y 2900/148** (2013.01)

Citation (opposition)
Opponent :

- DE 29604692 U1 19960502 - WINKHAUS FA AUGUST [DE]
- DE 4407276 A1 19950907 - GEZE GMBH & CO [DE]
- DE 714768 C 19411206 - GEORGE LEWIS CURTIS, et al
- EP 0708218 A1 19960424 - SCHLUETER HEINRICH [DE]

Cited by
DE102016000566A1; NL2002930C2; NL1033845C2; FR2909407A1; EP2034218A1; CN108603568A; CN110905331A; FR3135290A1; CN105822172A; DE10346861A1; DE10346861B4; US8468747B2; WO2006074971A1; WO2008071887A1; WO2017125554A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1353031 A1 20031015; **EP 1353031 B1 20061129**; **EP 1353031 B2 20100526**; AT E347012 T1 20061215; DE 20221581 U1 20060608; DE 60216414 D1 20070111; DE 60216414 T2 20070920; DE 60216414 T3 20100909; DK 1353031 T3 20070326; DK 1353031 T4 20100712

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EP 02007883 A 20020409; AT 02007883 T 20020409; DE 20221581 U 20020409; DE 60216414 T 20020409; DK 02007883 T 20020409