

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