Title (en)

Operating device of a closing element comprising a frictional clutch

Title (de)

Betätigungsvorrichtung für ein Verschlusselement mit einer Rutschkupplung

Title (fr)

Dispositif de manoeuvre d'un élément de fermeture comprenant un accouplement à friction

Publication

EP 0771930 B1 20010228 (FR)

Application

EP 96810714 A 19961025

Priority

CH 306695 A 19951030

Abstract (en)

[origin: EP0771930A1] The actuator consists of a motor and reduction gear unit (4) inside a hollow drive shaft. A transmission mechanism (6) between the two enables the shutter to be released when there is a force resisting its descent. The transmission mechanism also has a one-way coupling assembly comprising a disc fixed to the reduction gear output shaft. It also comprises spring-loaded catches which are able to interact with notches in a crown wheel fixed to the hollow shaft. A friction coupling is also contained inside the crown wheel and ensures an friction engagement between the disc of the one-way coupling and a flange fixed to the crown wheel.

IPC 1-7

E06B 9/72; E06B 9/60; E04F 10/06

IPC 8 full level

E06B 9/56 (2006.01); **E04F 10/06** (2006.01); **E06B 9/60** (2006.01); **E06B 9/62** (2006.01); **E06B 9/72** (2006.01)

CPC (source: EP US)

E04F 10/0648 (2013.01 - EP US); **E06B 9/60** (2013.01 - EP US); **E06B 9/62** (2013.01 - EP US); **E06B 9/72** (2013.01 - EP US)

Cited by

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Designated contracting state (EPC)

AT BE DE ES FR GB IT SE

DOCDB simple family (publication)

CH 688006 A5 19970415; AT E199435 T1 20010315; DE 69611877 D1 20010405; EP 0771930 A1 19970507; EP 0771930 B1 20010228; ES 2104542 T1 19971016; JP H09165982 A 19970624; US 5803150 A 19980908

DOCDB simple family (application)

CH 306695 A 19951030; AT 96810714 T 19961025; DE 69611877 T 19961025; EP 96810714 A 19961025; ES 96810714 T 19961025; JP 28815596 A 19961030; US 73036596 A 19961015