

Title (en)

Door opening or gate opening device with simplified mechanical transmission

Title (de)

Türöffnungs- oder Toröffnungsvorrichtung mit vereinfachter mechanischer Kraftübertragung

Title (fr)

Dispositif d'ouverture de porte ou de portail doté d'une transmission mécanique simplifiée

Publication

EP 2189605 A1 20100526 (EN)

Application

EP 09176590 A 20091120

Priority

IT MI20082099 A 20081125

Abstract (en)

A door opening or gate opening device comprising a first drive shaft (1) adapted to be connected to a motor, a first worm (2) fitted to said first drive shaft (1), a second drive shaft (3) adapted to receive motion from said first drive shaft (1), a first toothed wheel (4) fitted to said second drive shaft (3) and meshed with the first worm (2) to receive motion therefrom, a second worm (5) located on the second drive shaft (3), a third drive shaft (6) connected to a gate opening arm (7), a second toothed wheel (8) fitted to said third drive shaft (6) and meshed with the second worm (5) to receive motion therefrom, said device comprising a fourth drive shaft (9), adapted to receive motion from the first drive shaft (1) and to transmit it to the third drive shaft (6).

IPC 8 full level

E05F 15/12 (2006.01)

CPC (source: EP)

E05F 15/63 (2015.01); **E05Y 2201/702** (2013.01); **E05Y 2201/704** (2013.01); **E05Y 2800/22** (2013.01); **E05Y 2900/40** (2013.01)

Citation (search report)

- [A] EP 1235330 A1 20020828 - CIT ALCATEL [FR]
- [A] US 4403449 A 19830913 - RICHMOND MOSCOW K [US]
- [A] DE 102005051722 A1 20070510 - ELKA TORANTRIEBE GMBH & CO BET [DE]

Cited by

CN103727297A; CN103670112A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2189605 A1 20100526; IT 1392160 B1 20120222; IT MI20082099 A1 20100526

DOCDB simple family (application)

EP 09176590 A 20091120; IT MI20082099 A 20081125