

Title (en)

Device and method for automatic opening and closing of doors and gates

Title (de)

Vorrichtung und Verfahren zum automatischen Öffnen und Schließen von Türen und Toren

Title (fr)

Dispositif et procédé pour l'ouverture et la fermeture automatique de portes et de portails

Publication

EP 2189606 A1 20100526 (EN)

Application

EP 09176721 A 20091123

Priority

IT MI20082102 A 20081125

Abstract (en)

A device for automatic opening and closing of doors and gates comprising an electric motor (1), an electronic control unit (2) arranged to be connected to the electric motor (1) through a supply line (3), at least one position sensor (FC1, FC2, FC3, FC4), and a conversion unit (5), arranged to be set in series on the supply line (3) between the electric motor (1) and the electronic control unit (2), said conversion unit (5) being arranged to receive at input a position signal (S1, S2, S3, S4) coming from said at least one position sensor (FC1, FC2, FC3, FC4) and to interrupt at least temporarily the current in the electric motor (1) in response to the position signal (S1, S2, S3, S4) coming from said at least one position sensor (FC1, FC2, FC3, FC4).

IPC 8 full level

E05F 15/12 (2006.01); **E05F 15/00** (2006.01); **E05F 15/14** (2006.01); **E05F 15/16** (2006.01)

CPC (source: EP US)

E05F 15/40 (2015.01 - EP US); **E05F 15/41** (2015.01 - US); **E05F 15/42** (2015.01 - EP); **E05F 15/611** (2015.01 - EP); **E05F 15/622** (2015.01 - US); **E05F 15/632** (2015.01 - EP); **E05F 15/652** (2015.01 - EP US); **E05F 15/665** (2015.01 - EP); **E05Y 2900/132** (2013.01 - EP); **E05Y 2900/40** (2013.01 - EP)

Citation (search report)

- [X] US 2004160205 A1 20040819 - ROBB ERIC [US], et al
- [X] US 4131830 A 19781226 - LEE MAW H, et al
- [X] GB 2077848 A 19811223 - HITACHI LTD

Cited by

CN104169512A

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 2189606 A1 20100526; IT MI20082102 A1 20100526

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EP 09176721 A 20091123; IT MI20082102 A 20081125