

Title (en)

Door closer with a drive for opening a door or similar

Title (de)

Türschliesser mit einem Antrieb zum Öffnen einer Tür oder dergleichen

Title (fr)

Ferme porte avec entraînement pour ouvrir une porte ou similaire

Publication

EP 1437474 A3 20090527 (DE)

Application

EP 04000311 A 20040109

Priority

DE 10300644 A 20030109

Abstract (en)

[origin: EP1437474A2] The drive shaft (10) has a small pinion (9) and carries a pulse disk (11) rotating past a sensor (12) which can produce signals giving the position of the disk. The small pinion meshes with a large pinion (8) which carries crown-wheel teeth (8a). These teeth mesh with the teeth (1a) on the driving output pinion which lies at right-angles to the input pinion.

IPC 8 full level

E05F 15/10 (2006.01); **E05F 15/12** (2006.01); **E05F 15/00** (2006.01)

CPC (source: EP)

E05F 15/611 (2015.01); **E05F 15/40** (2015.01); **E05F 15/70** (2015.01); **E05Y 2400/337** (2013.01); **E05Y 2600/458** (2013.01); **E05Y 2600/626** (2013.01); **E05Y 2900/132** (2013.01)

Citation (search report)

- [XAY] US 5221239 A 19930622 - CATLETT JOHN C [US]
- [XY] DE 10039099 A1 20020508 - DORMA GMBH & CO KG [DE]
- [Y] DE 3021998 A1 19811224 - GEORG OTTO DR ING
- [E] FR 2846487 A1 20040430 - DURAND ALAIN [FR]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

EP 1437474 A2 20040714; **EP 1437474 A3 20090527**; DE 10300644 A1 20040729; DE 10300644 B4 20061102

DOCDB simple family (application)

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