

Title (en)

Door for buildings

Title (de)

Toranlage für Gebäude

Title (fr)

Porte pour bâtiment

Publication

**EP 0947656 B1 20051221 (DE)**

Application

**EP 99102203 A 19990204**

Priority

- DE 19813933 A 19980328
- DE 29805716 U 19980328

Abstract (en)

[origin: EP0947656A2] The door panel is contained inside the frame with the weight-compensating unit consisting of at least one helical spring (11) pre-tensioned by being turned and one end on a horizontal shaft (7). The shaft and helical spring are positioned directly on the door panel with each end of the shaft protruding beyond the door leaf supports with a driving wheel in the form of cog or chain wheel (15) engaging with vertical chains (13,14).

IPC 1-7

**E05D 15/24**; E05D 13/00; E05F 15/16

IPC 8 full level

**E05F 1/16** (2006.01); **E06B 9/60** (2006.01); **E05D 15/24** (2006.01); **E05F 15/16** (2006.01)

CPC (source: EP)

**E05D 13/1261** (2013.01); **E06B 9/60** (2013.01); **E05D 15/24** (2013.01); **E05F 15/67** (2015.01); **E05F 15/684** (2015.01); **E05Y 2201/484** (2013.01); **E05Y 2900/00** (2013.01); **E05Y 2900/106** (2013.01)

Citation (examination)

US 5636678 A 19970610 - CARPER KENNETH E [US], et al

Designated contracting state (EPC)

AT CH DE FR IT LI NL

DOCDB simple family (publication)

**EP 0947656 A2 19991006**; **EP 0947656 A3 20020102**; **EP 0947656 B1 20051221**; AT E313681 T1 20060115; DE 59912940 D1 20060126

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