

Title (en)

Safety device for power driven devices

Title (de)

Sicherheitseinrichtung für motorisch angetriebene Systeme

Title (fr)

Dispositif de sécurité pour dispositifs entraînés par moteur

Publication

EP 0902158 A3 20000329 (DE)

Application

EP 98116973 A 19980908

Priority

DE 19739544 A 19970909

Abstract (en)

[origin: EP0902158A2] With vertically moving roller or concertina doors (15) operated by electric motors interference of the opening at any point blocks one or more of the infrared beams (19) which is electronically detected and stops or reverses the motor (41).

IPC 1-7

E06B 9/82

IPC 8 full level

E05F 15/10 (2006.01); **B60J 1/00** (2006.01); **E06B 9/82** (2006.01)

CPC (source: EP US)

E06B 9/82 (2013.01 - EP US); **E06B 2009/6836** (2013.01 - EP US)

Citation (search report)

- [X] FR 2685496 A1 19930625 - OTIS ELEVATOR CO [US]
- [Y] US 5233185 A 19930803 - WHITAKER LOUIS G [US]
- [Y] US 4166369 A 19790904 - NAKAJIMA MASANOBU [JP]

Cited by

DE102015101017A1; CN105573203A; DE102010017398B3; CN107250478A; DE102015101017B4; EA035777B1; US7045764B2; WO2016116178A1; EP2374985A2; US10197219B1; DE102008017244A1; WO2009121449A1; DE102007050334A1; DE202014101131U1; EP2799384A1; DE102014200004A1; US10605001B2; EP3101452B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6243006 B1 20010605; AT E232573 T1 20030215; DE 19739544 A1 19990311; DE 59807166 D1 20030320; EP 0902158 A2 19990317; EP 0902158 A3 20000329; EP 0902158 B1 20030212; JP 4519210 B2 20100804; JP H11159241 A 19990615

DOCDB simple family (application)

US 14831298 A 19980904; AT 98116973 T 19980908; DE 19739544 A 19970909; DE 59807166 T 19980908; EP 98116973 A 19980908; JP 25491898 A 19980909