

Title (en)  
Protected closing device.

Title (de)  
Gesicherte Abschliessvorrichtung.

Title (fr)  
Dispositif de fermeture protégé.

Publication  
**EP 0431705 A1 19910612 (EN)**

Application  
**EP 90203194 A 19901203**

Priority  
NL 8902976 A 19891201

Abstract (en)  
A device for closing a passageway, which device comprises a closing body that can be moved by means of a motor along a guiding from a closed position to an open position and vice versa, wherein the body is provided with a safety sensor interrupting the motor feed, is incorporated in a circuit with separate feed connected fixedly to the movable body and the circuit is provided with a conductor which extends in the direction of movement and which is guided slidably along at least one fixed coil disposed close to the guiding, which coil is a part of the control circuit for the motor, wherein the safety sensor comprises one or more break contacts connected in series, and further connected in series with a capacitor in the circuit so being able to measure the frequency change in the circuit, instead of operating on the usual measuring of a resistance or power change when the sensor is activated. <IMAGE>

IPC 1-7  
**E05F 15/00**

IPC 8 full level  
**E05F 15/00** (2006.01)

CPC (source: EP)  
**E05F 15/44** (2015.01); **E05F 2015/447** (2015.01); **E05Y 2900/40** (2013.01); **H01H 2003/146** (2013.01)

Citation (search report)

- [X] EP 0316691 A1 19890524 - THYSSEN INDUSTRIE [DE]
- [A] WO 8605836 A1 19861009 - JOENSSON BERT OVE
- [A] DE 3008597 A1 19810910 - MESSERSCHMITT BOELKOW BLOHM [DE]

Cited by  
NL9401929A; EP0791716A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0431705 A1 19910612; EP 0431705 B1 19941207**; DE 69014838 D1 19950119; DE 69014838 T2 19950504; DK 0431705 T3 19950508; ES 2064606 T3 19950201; NL 8902976 A 19910701

DOCDB simple family (application)  
**EP 90203194 A 19901203**; DE 69014838 T 19901203; DK 90203194 T 19901203; ES 90203194 T 19901203; NL 8902976 A 19891201