

Title (en)  
Security barrier

Title (de)  
Absperreinrichtung

Title (fr)  
Barrière de sécurité

Publication  
**EP 0937822 A3 20020213 (DE)**

Application  
**EP 99109721 A 19960319**

Priority  
• AT 48695 A 19950320  
• EP 96905582 A 19960319

Abstract (en)  
[origin: US5813796A] PCT No. PCT/AT96/00052 Sec. 371 Date Feb. 25, 1997 Sec. 102(e) Date Feb. 25, 1997 PCT Filed Mar. 19, 1996 PCT Pub. No. WO96/29472 PCT Pub. Date Sep. 26, 1996A barrier for a roadway has an upright (1), a barrier arm (9) fitted on a horizontal drive spindle (2), a pivoting mechanism and a balancing spring (8) supporting the opening and closing movements of the barrier arm (9). The balancing spring (8) has an untensioned zero position (0) between the blocking position (S) and the open position (F) of the barrier arm (9).

IPC 1-7  
**E01F 13/06**; F16D 43/208

IPC 8 full level  
**E01F 13/02** (2006.01); **E01F 13/06** (2006.01); **E05F 1/12** (2006.01)

CPC (source: EP US)  
**E01F 13/028** (2013.01 - EP US); **E01F 13/06** (2013.01 - EP US); **E05F 1/12** (2013.01 - EP US)

Citation (search report)  
• [XY] DE 3743304 A1 19890629 - VDO SCHINDLING [DE]  
• [X] FR 1461210 A 19661210  
• [Y] DE 1405696 A1 19690327 - GRAF HAGENBURG KG [DE]  
• [A] US 3688522 A 19720905 - SCHMUCK PETER  
• [A] US 2874493 A 19590224 - HENRI MANDEL  
• [A] US 4897960 A 19900206 - BARVINEK TODD A [US], et al  
• [A] FR 2166272 A1 19730817 - DELOT PIERRE

Cited by  
EP2105534A3

Designated contracting state (EPC)  
BE DE FR GB IT

DOCDB simple family (publication)  
**US 5813796 A 19980929**; AT 402311 B 19970425; AT A48695 A 19960815; DE 29620291 U1 19970507; DE 59604161 D1 20000217; DE 59610777 D1 20031120; DE 59610799 D1 20031204; EP 0760034 A1 19970305; EP 0760034 B1 20000112; EP 0937820 A2 19990825; EP 0937820 A3 20020213; EP 0937820 B1 20031029; EP 0937821 A2 19990825; EP 0937821 A3 20020213; EP 0937822 A2 19990825; EP 0937822 A3 20020213; EP 0937822 B1 20031015; WO 9629472 A2 19960926; WO 9629472 A3 19961031

DOCDB simple family (application)  
**US 73766497 A 19970225**; AT 48695 A 19950320; AT 9600052 W 19960319; DE 29620291 U 19960319; DE 59604161 T 19960319; DE 59610777 T 19960319; DE 59610799 T 19960319; EP 96905582 A 19960319; EP 99109719 A 19960319; EP 99109720 A 19960319; EP 99109721 A 19960319