

Title (en)  
Force element

Title (de)  
Kraftelement

Title (fr)  
Élément de force

Publication  
**EP 1469205 A3 20050511 (DE)**

Application  
**EP 04008316 A 20040406**

Priority  
• DE 10317987 A 20030419  
• DE 102004009444 A 20040227

Abstract (en)  
[origin: EP1469205A2] The actuator for motor vehicle safety systems has a housing (5) in which a pyrotechnic (1) for driving a piston (2a) is positioned. The piston has a pin (2a) and is driven by the gas produced by the pyrotechnic for extending the pin outwardly of the housing. The housing has an open cylinder (3) on one end face. The first end face of the cylinder has the pyrotechnic and the opposite end face has the pin.

IPC 1-7  
**F15B 15/19**

IPC 8 full level  
**F15B 15/19** (2006.01)

CPC (source: EP)  
**F15B 15/19** (2013.01)

Citation (search report)  
• [XY] EP 0731004 A1 19960911 - ECIA EQUIP COMPOSANTS IND AUTO [FR]  
• [YA] EP 1186786 A1 20020313 - AUTOMOTIVE SYSTEMS LAB [US]  
• [A] DE 10203710 C1 20030213 - THOMAS MAGNETE GMBH [DE]  
• [AD] DE 2747977 A1 19790503 - DYNAMIT NOBEL AG

Cited by  
AT12531U1; EP2444677A1; FR2966431A1; AT511500A1; AT511500B1; WO2009037185A1; US8635872B2

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1469205 A2 20041020; EP 1469205 A3 20050511; EP 1469205 B1 20070815; AT E370336 T1 20070915; DE 502004004612 D1 20070927**

DOCDB simple family (application)  
**EP 04008316 A 20040406; AT 04008316 T 20040406; DE 502004004612 T 20040406**