

Title (en)  
SECURITY APPARATUS

Publication  
**EP 0407402 A4 19910724 (EN)**

Application  
**EP 89902732 A 19890217**

Priority  
AU PI683488 A 19880218

Abstract (en)  
[origin: WO8907815A1] Security apparatus (10) for immobilising a vehicle is disclosed in which a password or security number is entered into a keypad (14) and encoded by a tone encoder (15). The tone-encoded signal is transmitted along a wire (13) to an enclosure (25) in which a tone decoder (20) and a fuel solenoid valve (23) energized by the tone decoder (20) are encapsuled. The fuel solenoid valve (23) opens only when a security number which produces a tone-encoded signal to which the tone-decoder (20) will respond has been entered into the keyboard (14). The security apparatus (10) may be disabled in a service mode permitting the vehicle to be operated without providing a password to service personnel, and the mode in force is stored in non-volatile memory, allowing the power supply (17) to be disconnected for servicing purposes without the security apparatus (10) reverting to security mode.

IPC 1-7  
**G08B 29/00**; **B60R 25/04**

IPC 8 full level  
**B60R 25/04** (2013.01); **B60R 25/20** (2013.01); **B60R 16/02** (2006.01); **B60R 16/03** (2006.01)

CPC (source: EP)  
**B60R 25/04** (2013.01); **B60R 25/2009** (2013.01); **B60R 16/0315** (2013.01)

Citation (search report)

- [X] WO 8103002 A1 19811029 - BLAIS AUTO SECURITY CORP [US]
- [Y] DE 2936929 A1 19810402 - SACHS SYSTEMTECHNIK GMBH
- [X] EP 0232974 A1 19870819 - GOSKER BRENDAN GERARD
- [X] FR 2403914 A1 19790420 - LICENTIA GMBH [DE]
- [X] US 4690240 A 19870901 - RUSSO RUDOLPH P [US]
- [A] US 4463340 A 19840731 - ADKINS JOEY B [US], et al
- [A] DE 2503266 A1 19750814 - ASEA AB
- See references of WO 8907815A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 8907815 A1 19890824**; EP 0407402 A1 19910116; EP 0407402 A4 19910724

DOCDB simple family (application)  
**AU 8900068 W 19890217**; EP 89902732 A 19890217