

Title (en)
Pyrotechnical safety device with micromachined barrier.

Title (de)
Pyrotechnische Sicherheitsvorrichtung mit mikrobearbeitetem Schild.

Title (fr)
Dispositif de sécurité pyrotechnique à écran micro usiné

Publication
EP 1780496 A1 20070502 (FR)

Application
EP 06291655 A 20061025

Priority
FR 0511121 A 20051027

Abstract (en)
A security device, comprising a screen (13.1) blocking a transmission channel (7a, 7b) between an initiator and a pyrotechnic charge, has the screen made in the form of at least one micro-machined or micro-engraved element mounted on or forming part of a substrate plate. The plate is positioned so that it is parallel to the transmission channel, with the initiator and pyrotechnic charge on opposite sides of its thickest section. The transmission channel itself has a cross-section of 1 mm 2-or less while being greater than the pyrotechnic charge's primer surface. The screen is moved, e.g. by a micro-spring (15.1) or micro-electric vibration motor.

IPC 8 full level
F42C 15/184 (2006.01)

CPC (source: EP US)
F42C 15/34 (2013.01 - EP US); **F42C 15/184** (2013.01 - EP US)

Citation (applicant)
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• FR 2801099 A1 20010518 - GIAT IND SA [FR]
• EP 1559986 A1 20050803 - LUCENT TECHNOLOGIES INC [US]
• US 6173650 B1 20010116 - GARVICK DONALD R [US], et al
• EP 1189012 A2 20020320 - TRW INC [US]
• EP 1573782 A2 20050914 - MONODRIVE INC [US]
• US 2005139577 A1 20050630 - KIM SUNG-CHUL [KR], et al
• US 6691513 B1 20040217 - KOLESAR EDWARD S [US]

Citation (search report)
• [DY] EP 1189012 A2 20020320 - TRW INC [US]
• [Y] US 6705231 B1 20040316 - ZACHARIN ALEXEY [US]
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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
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EP 06291655 A 20061025; AT 06291655 T 20061025; DE 602006008086 T 20061025; FR 0511121 A 20051027; NO 20064898 A 20061026; US 58463106 A 20061023