

Title (en)

Microelectronic-pyrotechnic device

Title (de)

Mikroelektronisch-Pyrotechnisches Bauteil

Title (fr)

Dispositif microélectronique-pyrotechnique

Publication

EP 1335178 A3 20040128 (DE)

Application

EP 03001251 A 20030121

Priority

DE 10204833 A 20020206

Abstract (en)

[origin: EP1335178A2] A microelectronic pyrotechnical component, for a safety system in motor vehicles, has a core made of an explosive material; a jacket made of a solid semiconductor material that surrounds the explosive material on side faces of the core; and an ignition element situated between electric contact surfaces on one of end faces of the core. The explosive material contains a porous fuel and an oxidizer incorporated into the porous fuel. A microelectronic pyrotechnical component, for a safety system in motor vehicles, comprises a core (12) having end and side faces and made of an explosive material; a jacket (14) made of a solid semiconductor material that surrounds the explosive material on the side faces of the core; and an ignition element (18) situated between electric contact surfaces (20) on one of the end faces of the core. The ignition element initiates an ignition of the explosive material when current flows through it. The explosive material comprises a porous fuel, and an oxidizer incorporated into the porous fuel. The porous fuel and the solid semiconductor are made of the same material.

IPC 1-7

F42B 3/13

IPC 8 full level

C06B 45/00 (2006.01); **C06C 9/00** (2006.01); **F42B 3/13** (2006.01)

CPC (source: EP US)

C06B 45/00 (2013.01 - EP US); **C06C 9/00** (2013.01 - EP US); **F42B 3/13** (2013.01 - EP US)

Citation (search report)

- [DA] DE 19815928 A1 19991104 - DAIMLER CHRYSLER AG [DE], et al
- [A] DE 3842917 C1 19891130

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1335178 A2 20030813; **EP 1335178 A3 20040128**; **EP 1335178 B1 20070307**; DE 10204833 A1 20030821; DE 10204833 B4 20051110; DE 50306709 D1 20070419; US 2003145758 A1 20030807; US 7793592 B2 20100914

DOCDB simple family (application)

EP 03001251 A 20030121; DE 10204833 A 20020206; DE 50306709 T 20030121; US 36049703 A 20030206