Title (en)

Microelectronic-pyrotechnic device

Title (de)

Mikroelektronisch-Pyrotechnisches Bauteil

Title (fr)

Dispositif microélectronique-pyrotechnique

Publication

EP 1335178 B1 20070307 (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 8 full level

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

CPC (source: EP US)

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