

Title (en)
PYROTECHNIC SWITCH

Title (de)
PYROTECHNISCHER SCHALTER

Title (fr)
INTERRUPTEUR PYROTECHNIQUE

Publication
EP 3844791 A1 20210707 (EN)

Application
EP 19758721 A 20190823

Priority
• GB 201814001 A 20180829
• EP 2019072592 W 20190823

Abstract (en)
[origin: GB2576728A] A switch 100 comprises a pyrotechnic actuator 116 which is ignited to release gas into an ignition chamber 104 and exert pressure on a rotor blade 110 of a rotor 108. An electrical conduction path is defined by a conductor 112 comprising a first section 112a, a second section 112b, and a third section 112c, the first and second sections comprising connection contacts and the third section being coupled to the rotor. Upon exertion of pressure by the pyrotechnic actuator, the rotor blade is rotated from an initial position to a final position (figure 3), which causes the third section to move relative to the first and second sections and the current path to be opened. When in the initial position the rotor blade may form a seal to partition the ignition chamber. The pyrotechnic actuator may release gas into the chamber in a tangential direction to the orientation of the rotor blade in its initial position. The switch may comprise two chambers, either fluidly coupled or isolated from each other, each chamber having a respective rotor blade. At least the third section may be located inside a secondary chamber which is filled with an arc extinguishing media.

IPC 8 full level
H01H 39/00 (2006.01)

CPC (source: EP GB)
H01H 39/00 (2013.01 - EP); **H01H 39/006** (2013.01 - GB); **H01H 1/2041** (2013.01 - EP); **H01H 2039/008** (2013.01 - EP)

Citation (search report)
See references of WO 2020043616A1

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