

Title (en)
Protection device.

Title (de)
Schutzeinrichtung.

Title (fr)
Dispositif de protection.

Publication
EP 0242902 A2 19871028 (EN)

Application
EP 87200556 A 19870324

Priority
• ES 553479 A 19860326
• GB 8607719 A 19860327

Abstract (en)
A threshold switching device for protecting an electrical circuit from an overvoltage comprises a switching element formed from a chalcogenide glass and a pair of electrodes that are in contact with the composition. When the circuit experiences an overvoltage transient, the switching element will switch to its low resistance state to pass the electrical current to ground and then revert to its high resistance state. The switching element includes an indium layer or an indium containing layer between the switching element and at least one, preferably both electrodes. The presence of the indium layers improves the adhesion of the electrodes and/or reduces the electrical contact resistance between the chalcogenide glass and the electrodes and thereby increases the amount of electrical energy that may be passed through the device during a voltage transient before the device latches in its low resistance state.

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H01C 7/12

IPC 8 full level
H01C 7/10 (2006.01); **H01C 7/102** (2006.01)

CPC (source: EP)
H01C 7/1013 (2013.01); **H01C 7/102** (2013.01)

Cited by
CN110729399A; CN109473411A; US5682130A; CN102751319A; US5663861A; US5945903A; KR100766678B1; CN101807666A; WO2004081617A3; US7315465B2; US7542319B2; EP0864204B1

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