

Title (en)  
Heat sensitive circuit interrupter.

Title (de)  
Wärmeempfindlicher Leitungsunterbrecher.

Title (fr)  
Interrupteur de circuit sensible à la chaleur.

Publication  
**EP 0095315 A1 19831130 (EN)**

Application  
**EP 83302817 A 19830518**

Priority  
GB 8214998 A 19820522

Abstract (en)  
A heat sensitive circuit interrupter comprising an electrical conductor (6,7) made from a material of predetermined melting temperature and encased in an electrically insulating sheath (1). The sheath is designed to withstand temperatures higher than the melting temperature of the conductor, and the conductor in its molten state flows within the sheath to break the electrical continuity of the conductor. The materials of the conductor and the adjacent portions of the sheath are selected to provide a contact angle for the molten conductor which is sufficiently large for the molten conductor to flow into separated drops. The conductor may be a lead/tin solder incorporating a flux.

IPC 1-7  
**H01H 37/76**

IPC 8 full level  
**H01H 37/76** (2006.01)

CPC (source: EP)  
**H01H 37/761** (2013.01); **H01H 2037/768** (2013.01)

Citation (search report)  
• [AD] GB 1164238 A 19690917 - HARTMAN ROBERT LOUIS [US], et al  
• [A] DE 2121120 B2 19730426  
• [A] DE 2808319 A1 19790906 - UCHIHASHI METAL IND CO  
• [A] DE 7723699 U1 19790125

Cited by  
CN106405318A; US5659284A; CN1048116C; WO9967862A1; WO9523423A1

Designated contracting state (EPC)  
DE FR GB IT NL SE

DOCDB simple family (publication)  
**EP 0095315 A1 19831130; EP 0095315 B1 19870325**; CA 1194907 A 19851008; DE 3370559 D1 19870430; JP S5937625 A 19840301

DOCDB simple family (application)  
**EP 83302817 A 19830518**; CA 428557 A 19830520; DE 3370559 T 19830518; JP 8929883 A 19830523