

Title (en)  
RF thermal fuse

Title (de)  
RF-Temperatursicherung

Title (fr)  
Fusible thermique RF

Publication  
**EP 2720246 A1 20140416 (EN)**

Application  
**EP 13187898 A 20131009**

Priority  
• US 201261711350 P 20121009  
• US 201313869653 A 20130424

Abstract (en)  
Certain aspects are directed to a thermal fuse for preventing overheating of RF devices in a telecommunication system. The RF thermal fuse includes a body, a conductive bolt, and a driving mechanism. The body can be positioned on a transmission line between an RF signal source and an RF device. The conductive bolt is positioned in the body. The conductive bolt has a length sufficient to provide impedance at a point of protection on the transmission line in response to the conductive bolt contacting a live conductor of the transmission line. The impedance is sufficient to reflect a portion of the incident power of an RF signal from the RF source. The driving mechanism can cause the conductive bolt to contact the live conductor in response to a temperature at or near the point of protection exceeding a threshold temperature.

IPC 8 full level  
**H01H 37/36** (2006.01); **H01H 37/46** (2006.01); **H01H 37/52** (2006.01); **H01H 37/76** (2006.01); **H01P 1/28** (2006.01); **H01P 1/30** (2006.01); **H01Q 1/50** (2006.01)

CPC (source: EP)  
**H01H 37/36** (2013.01); **H01H 37/46** (2013.01); **H01H 37/52** (2013.01); **H01H 37/767** (2013.01); **H01P 1/28** (2013.01); **H01P 1/30** (2013.01); **H01Q 1/50** (2013.01)

Citation (search report)  
• [A] JP 2007089054 A 20070405 - NIPPON TELEGRAPH & TELEPHONE  
• [A] US 2886744 A 19590512 - MCNATT JR WILLIAM E  
• [A] WO 2007095873 A1 20070830 - SIEMENS AG [DE], et al  
• [A] DE 29605370 U1 19960530 - DRIESCHER SPEZIALFAB FRITZ [DE]  
• [A] US 2010073120 A1 20100325 - KNAB NORBERT [DE], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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