Title (en)

Load-related electrical fuse.

Title (de)

Belastungsabhängige elektrische Präventivsicherung

Title (fr)

Fusible électrique dépendant de la charge.

Publication

EP 0643401 A3 19970402 (DE)

Application

EP 94202512 A 19940902

Priority

DE 4330534 A 19930909

Abstract (en)

[origin: EP0643401A2] Load-dependent electrical safety fuse having an electronic ceramic (12) in a housing (11) from which connecting lines (14) are passed, for determining at least a first type of load of a device to be monitored, use being made of a ceramic, in brief a TDR ceramic (12), the electrically insulating state of which enters a semiconducting state as a function of time as a first type of load and of a second type of load. As a consequence, when the TDR ceramic (12) is supplied with DC voltage U via connecting lines (14), a current increase forms the trigger criterion which is met in the event of predeterminable conditions and determines a desired operating time tau . <IMAGE>

IPC 1-7

H01C 7/13

IPC 8 full level

H01H 85/00 (2006.01); **H01C 7/04** (2006.01); **H01C 7/10** (2006.01); **H01C 7/13** (2006.01)

CPC (source: EP US)

H01C 7/045 (2013.01 - EP US); **H01C 7/13** (2013.01 - EP US)

Citation (search report)

- [A] US 5130689 A 19920714 - RAYKHTSAUM GRIGORY [US], et al
- [A] R. WASER ET AL.: "dc Electrical Degradation of Perovskite-Type Titanates: II, Single Crystals", J.AM.CERAM. SOC. 73 (6), vol. 73, no. 6, 1990, pages 1654 - 1662, XP000616631
- [A] PATENT ABSTRACTS OF JAPAN vol. 013, no. 247 (M - 835) 8 June 1989 (1989-06-08)

Designated contracting state (EPC)

DE FR GB NL

DOCDB simple family (publication)

EP 0643401 A2 19950315; **EP 0643401 A3 19970402**; **EP 0643401 B1 20020529**; DE 4330534 A1 19950316; DE 59410123 D1 20020704; JP H07192599 A 19950728; US 6133819 A 20001017

DOCDB simple family (application)

EP 94202512 A 19940902; DE 4330534 A 19930909; DE 59410123 T 19940902; JP 21472794 A 19940908; US 84379097 A 19970421