

Title (en)
FUSE AND CIRCUIT BREAKER COMPRISING SUCH A FUSE

Title (de)
SICHERUNG UND SICHERUNGSSCHUTZSCHALTER

Title (fr)
FUSIBLE ET INTERRUPTEUR COMBINÉ COMPRENANT UN TEL FUSIBLE

Publication
EP 2553705 B1 20150513 (FR)

Application
EP 11720135 A 20110328

Priority

- FR 1052294 A 20100329
- FR 2011050667 W 20110328

Abstract (en)
[origin: WO2011124817A1] The fuse (1) comprises a tubular body (2), at least one insulating bar (4) based in the tubular body along a longitudinal axis (?-?) of the tubular body, at least one fuse strip, (110) of constant thickness, spiralling wound onto at least one bar (4) and extending between the longitudinal ends (1a, 1b) of the fuse (1), the strip (110) comprising segments (111) of maximum width and a plurality of narrow sections (112, 113) placed along its longitudinal direction, each narrow section having a geometry defined by its minimum width and its length in which the narrow sections (112, 113) are at least of two different types and comprise at least one narrow section of a first type (112) which has a first minimum width and at least one narrow section of a second type (113) that has a second minimum width different from the first minimum width. This fuse is characterized in that the narrow sections (112, 113) are regularly spaced apart along the fuse strip (110) with an alternation of narrow sections of the first type (112) and narrow sections of the second type (113).

IPC 8 full level
H01H 85/042 (2006.01); **H01H 85/10** (2006.01)

CPC (source: EP)
H01H 85/042 (2013.01); **H01H 85/10** (2013.01); **H01H 85/0458** (2013.01); **H01H 85/306** (2013.01)

Citation (opposition)
Opponent : ABB Technology AG

- US 3835431 A 19740910 - ROSEN P, et al
- US 2007159291 A1 20070712 - WILNIEWCZYC MARIUS [PL], et al
- PL 158286 B1 19920831
- PL 150614 B1 19900630
- PL 180533 B1 20010228 - INST ELEKTROTECHNIKI [PL], et al
- US 5892427 A 19990406 - HANDCOCK HAROLD JOHN [GB]
- GB 1326535 A 19730815 - ENGLISH ELECTRIC CO LTD
- WO 03075298 A1 20030912 - ETI ELEKTROELEMENT DD [SI], et al
- PL 64793 Y1 20100226 - ABB SP ZOO [PL]
- US 3835431 A 19740910 - ROSEN P, et al
- US 2007159291 A1 20070712 - WILNIEWCZYC MARIUS [PL], et al
- PL 158286 B1 19920831
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- WO 03075298 A1 20030912 - ETI ELEKTROELEMENT DD [SI], et al
- PL 64793 Y1 20100226 - ABB SP ZOO [PL]
- OLIVIER BOUILLIEZ ET AL.: "Design and use of MV current-limiting fuses", CAHIER TECHNIQUE NO 128, January 2003 (2003-01-01), pages 1 - 30, XP055255355, Retrieved from the Internet <URL:http://www.eschneider.pl/download/11%20Publikacje%20techniczne/ect128.pdf>
- BOUILLIEZ O. ET AL.: "Design and use of MV current-limiting fuses", CAHIER TECHNIQUE NO 128, January 2003 (2003-01-01), pages 1 - 30, XP055255355

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DOCDB simple family (application)
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