

Title (en)
FUSIBLE CONDUCTOR, AND FUSE

Title (de)
SCHMELZLEITER SOWIE SICHERUNG

Title (fr)
CONDUCTEUR FUSIBLE AINSI QUE COUPE-CIRCUIT À FUSIBLE

Publication
EP 3830858 A1 20210609 (DE)

Application
EP 20728374 A 20200518

Priority
• DE 102019004418 A 20190625
• DE 102019005664 A 20190813
• EP 2020063868 W 20200518

Abstract (en)
[origin: WO2020259924A1] The invention relates to the use of a fusible conductor (1) for a DC fuse (2) and a high-voltage, high-power fuse (2) (HH-DC fuse), the fusible conductor (1) having an electrically conductive fuse wire (3), the fuse wire (3) having at least two overload constriction points (4) designed as cross-sectional constrictions. Preferably, between the two immediately consecutive overload constriction points (4), in at least one first portion (5) a first layer (7) including solder and/or consisting thereof is provided which at least partially, preferably completely, surrounds the outer surface (6) of the fuse wire (3) circumferentially, and, adjoining each of the overload constriction points (4), in a second portion (8) a second layer (9) is provided which at least partially, preferably completely, surrounds the outer surface (6) of the fuse wire (3) circumferentially.

IPC 8 full level
H01H 85/042 (2006.01); **H01H 85/08** (2006.01); **H01H 85/10** (2006.01); **H01H 85/11** (2006.01); **H01H 85/157** (2006.01); **H01H 85/18** (2006.01); **H01H 85/38** (2006.01)

CPC (source: EP KR US)
H01H 71/122 (2013.01 - KR); **H01H 85/042** (2013.01 - EP KR US); **H01H 85/055** (2013.01 - US); **H01H 85/08** (2013.01 - EP); **H01H 85/10** (2013.01 - EP KR); **H01H 85/11** (2013.01 - EP KR); **H01H 85/157** (2013.01 - EP KR); **H01H 85/165** (2013.01 - US); **H01H 85/18** (2013.01 - EP); **H01H 85/185** (2013.01 - EP KR); **H01H 85/303** (2013.01 - KR); **H01H 85/38** (2013.01 - EP KR); **H01H 71/122** (2013.01 - EP); **H01H 85/303** (2013.01 - EP); **H01H 2085/388** (2013.01 - EP KR)

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)
DE 102019005664 A1 20201231; CN 114787955 A 20220722; CN 114787955 B 20240503; DK 3830858 T3 20220718; EP 3830858 A1 20210609; EP 3830858 B1 20220504; ES 2920968 T3 20220812; HU E059119 T2 20221028; KR 20210105877 A 20210827; PL 3830858 T3 20220816; PT 3830858 T 20220711; SI 3830858 T1 20220831; US 11710613 B2 20230725; US 2022068581 A1 20220303; WO 2020259924 A1 20201230

DOCDB simple family (application)
DE 102019005664 A 20190813; CN 202080005801 A 20200518; DK 20728374 T 20200518; EP 2020063868 W 20200518; EP 20728374 A 20200518; ES 20728374 T 20200518; HU E20728374 A 20200518; KR 20217012245 A 20200518; PL 20728374 T 20200518; PT 20728374 T 20200518; SI 202030069 T 20200518; US 202017278705 A 20200518