

Title (en)
FUSE ELEMENT AND FUSE

Title (de)
SICHERUNGSKÖRPER UND SCHMELZSICHERUNG

Title (fr)
CORPS DE SÉCURITÉ ET FUSIBLE

Publication
EP 3853878 A1 20210728 (DE)

Application
EP 19821035 A 20191203

Priority
• DE 102019200460 A 20190116
• EP 2019083414 W 20191203

Abstract (en)
[origin: WO2020148015A1] The invention relates to a fuse element (10) for a fuse with an integrated measurement function, having a first receiving area (20) for receiving a melting conductor of the fuse, said first receiving area (20) being delimited in the length direction (L) of the fuse by a closure element and in a direction (R) orthogonal to the length direction (L) by the fuse element (10). Furthermore, the fuse element (10) has a second receiving area (30), which is physically separated from the first receiving area (20), for receiving a measuring device of the fuse, said second receiving area (30) being designed to receive the measuring device in a wall section (13) of the fuse element (10). The second receiving area (30) formed in the fuse element (10) protects the measuring device arranged therein against interfering environmental influences. The measuring device is used to ascertain the electric current flowing through the fuse directly on the fuse. In this manner, a fuse with an integrated measuring function can be implemented which allows the state of the fuse, and thus the state of an electric system secured by the fuse, to be directly detected in situ without requiring a visual check.

IPC 8 full level
H01H 85/175 (2006.01); **H01H 85/02** (2006.01); **H01H 85/30** (2006.01)

CPC (source: EP US)
H01H 85/06 (2013.01 - US); **H01H 85/175** (2013.01 - EP US); **H01H 85/30** (2013.01 - EP US); **H01H 2085/0266** (2013.01 - EP US); **H01H 2085/0291** (2013.01 - EP US)

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)
WO 2020148015 A1 20200723; CN 113287184 A 20210820; EP 3853878 A1 20210728; US 11923163 B2 20240305; US 2022068582 A1 20220303

DOCDB simple family (application)
EP 2019083414 W 20191203; CN 201980088874 A 20191203; EP 19821035 A 20191203; US 201917419802 A 20191203