

Title (en)
FUSE

Title (de)
SICHERUNG

Title (fr)
FUSIBLE

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Application
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Abstract (en)
[origin: WO2013024153A1] The subject matter of the invention is a fuse (3) for connection to a protection component (2) of a surge protection device (2), wherein the fuse (3) has a housing (3f), a first cap (3a), a second cap (3b) and a fusible wire (3d), which runs between the first cap (3a) and the second cap (3b) within the housing, wherein the first cap (3a) is designed for thermal and electrical connection to the protective component (2), wherein the fusible wire (3d) is held on the first cap (3a) by means of a soldered joint (3c), wherein the fusible wire (3d) is fastened on a connection electrode (4) with respect to the first cap (3a), wherein the connection electrode (4) is held in a guide (8) movably with respect to the body of the fuse (3) and is under mechanical prestress (6) with respect to the body of the fuse (3), wherein the fusible wire (3d) is designed in such a way that it fuses when a high I_{2t} is applied, and wherein the soldered joint (3c) is designed in such a way that the soldered joint (3c) fuses in the event of external heating by the surge protection device (2) to above a specified temperature owing to the thermal connection, and wherein the electrical contact between the first cap (3a) and the connection electrode (4) is released in the event of fusing of the fusible wire (3d) and the soldered joint (3c) owing to the mechanical prestress (6).

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