

Title (en)  
Power fuse

Title (de)  
Starkstromschmelzsicherung

Title (fr)  
Fusible pour courant fort

Publication  
**EP 0996137 A1 20000426 (DE)**

Application  
**EP 98810964 A 19980924**

Priority  
EP 98810964 A 19980924

Abstract (en)  
The invention relates to a high-voltage fuse in which a cover plate (2) of a first electrical connection is connected to a separating plate (6) via a fuse element consisting of silver-coated strips (7) in an electrically conductive manner. A reactor is connected to said separating plate, which reactor has a coil (8) enclosing a core which is provided in the form of a solid ferrite bar (9). Said coil connects the separating plate (6) to a cover plate (4) of a second electrical connection in an electrically conductive manner. Alternatively, in order to save space, the fuse element can be arranged in an opening in the hollow core and can be connected to the coil via a return line. Said high-voltage fuse provides a means of connecting branches of a power supply system to a low-voltage line and a means of preventing the distribution of the high-frequency signals used for communication between appliances of one branch to other branches.

Abstract (de)  
Eine Abschlussplatte (2) eines ersten elektrischen Anschlusses ist durch einen aus Silbermantelbändern (7) bestehenden Schmelzleiter mit einer Trennplatte (6) elektrisch leitend verbunden, an welche eine Drossel anschliesst mit einer Wicklung (8), welche einen als massiver Stab (9) aus Ferrit ausgebildeten Kern umgibt und die Trennplatte (6) mit einer Abschlussplatte (4) eines zweiten elektrisch leitenden Anschlusses elektrisch leitend verbindet. Alternativ kann der Schmelzleiter in platzsparender Weise in einer Durchführung im hohl ausgebildeten Kern angeordnet und über eine Rückleitung mit der Wicklung verbunden sein. <IMAGE>

IPC 1-7  
**H01H 85/02**; **H01F 27/40**

IPC 8 full level  
**H01H 85/12** (2006.01); **H01F 27/40** (2006.01); **H01H 85/00** (2006.01); **H01H 85/02** (2006.01); **H01H 85/165** (2006.01); **H01H 85/46** (2006.01)

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**H01F 27/402** (2013.01 - EP); **H01H 85/02** (2013.01 - EP KR)

Citation (search report)

- [Y] DE 1836426 U 19610817 - BLAUPUNKT WERKE GMBH [DE]
- [A] EP 0639840 A2 19950222 - ABB PATENT GMBH [DE]
- [A] EP 0028882 A1 19810520 - SWISH PROD [GB]
- [A] DE 9201490 U1 19930311
- [A] FR 2471039 A1 19810612 - FERODO SA [FR]
- [Y] PATENT ABSTRACTS OF JAPAN vol. 098, no. 004 31 March 1998 (1998-03-31)

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