

Title (en)
High-voltage bushing

Title (de)
Hochspannungsdurchführung

Title (fr)
Traversée haute tension

Publication
EP 2180485 B1 20110511 (EN)

Application
EP 08460041 A 20081027

Priority
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Abstract (en)
[origin: EP2180485A1] The subject of the invention is a high-voltage bushing applicable in electric power engineering. The high-voltage bushing comprises a condenser core (1) and electrically conducting field-grading layers (3) which are arranged coaxially around the central conductor (2) and are embedded in insulating material (4) of the condenser core (1). An electric connection (6) is provided to at least one layer (3a) of the field-grading layers (3) by means of a current-collecting member (5). The layer (3a) is made in form of thin metal film deposited on an electrically insulating substrate layer or in form of a percolating network of conductive particles suspended in a layer of electrically insulating material, and the current-collecting member (5) is positioned on the surface of the layer (3a) and it covers a part of the surface area of the layer (3a) and has the surface resistivity many times smaller than the surface resistivity of the layer (3a). The current-collecting member (5) is shaped so that the length of the contour line of its circumference (L) is greater than the length of the shorter side of the layer (3a).

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CPC (source: EP)
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Cited by
WO2020109299A1; EP2911255A1; RU2640315C1; EP2541561A1; DE102012104137A1; CN103534766A; US8907223B2; CN106463217A; EP3660869A1; CN113016041A; US2022028584A1; WO2013000597A1; WO2015124656A1; EP2715743B1

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