

Title (en)
ELECTRIC COMPONENT FOR A HIGH-VOLTAGE SYSTEM

Title (de)
ELEKTRISCHE KOMPONENTE FÜR EINE HOCHSPANNUNGSANLAGE

Title (fr)
COMPOSANT ÉLECTRIQUE POUR INSTALLATION HAUTE TENSION

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Application
EP 12712246 A 20120326

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Abstract (en)
[origin: WO2012163561A1] The electric component is designed for a high-voltage system. Said component has, in a coaxial arrangement, a conductor (10) which extends along an axis (A) and which can be maintained at high-voltage potential, a rigid insulating body (20) which is fixed to the conductor (10) and which surrounds the conductor, a mounting flange (30) which is fixed to the insulating body (20) and which can be maintained at ground potential, and a control electrode (50) which is connected to the conductor (10) in an electrically conductive manner, which is fixed to an end (12) of the conductor (10), and which is designed in the form of a hub. The insulating body (20) contains a solid polymer material (21) which is made by curing a preformed flowable polymer material. During the operation of the system, the control electrode (50) controls the electric field between the conductor (10) and the mounting flange (30). The aim of the invention is to produce the electric component in a simple manner and to increase the operating reliability of the component. This is achieved in that control electrode (50) is connected to the conductor (10) in an undetachable manner, and the control electrode has a hub (51), which is produced during the preforming and curing of the flowable polymer material, which is dimensionally stable, which is coated at least on the outside with a conductive lacquer (52), and which is made of the solid polymer material (21), or in that the control electrode (50) is designed so as to be elastically deformable and has a hub (51) which is coated with a conductive or non-conductive lacquer (52) and which is made of an elastomer plastic.

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Citation (examination)
• US 4283595 A 19810811 - ANOSOV OLEG V, et al
• WO 2006001724 A1 20060105 - ABB SP ZOO [PL], et al
• EP 2180485 A1 20100428 - ABB RESEARCH LTD [CH]

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