

Title (en)
Resistor for high-voltage equipment.

Title (de)
Widerstandseinrichtung für Hochspannungsanlagen.

Title (fr)
Résistance pour installations à haute tension.

Publication
EP 0041470 A2 19811209 (DE)

Application
EP 81730048 A 19810514

Priority
DE 8014833 U 19800530

Abstract (en)
[origin: US4363017A] Disclosed is a stacked resistor device particularly for high-voltage installations. The resistor device includes inner and outer annular resistance elements of different diameters which are adjacently disposed along a common axis to form a stack. The resistance elements are electrically connected by annular-shaped contact elements. The contact elements include an annular recess of larger diameter on one side for receiving the outer resistance element and an annular recess of smaller diameter on the other side for receiving the inner resistance element, and include a central cutout through which a clamping sleeve of plastic material is inserted. Bushings and clamping parts are disposed at opposed ends of the sleeve to clamp the resistance elements and contact elements together to form the stacked resistor device. The contact elements not only provide for electrical connections between resistance elements but also provide a bearing surface for the resistance elements so that in cooperation with the bushings inserted into opposite ends of the clamping sleeve, the resistance elements and contact elements are clamped together into a compact and mechanically strong resistor device.

Abstract (de)
Die Erfindung bezieht sich auf eine Widerstandseinrichtung für Hochspannungsanlagen mit in derselben Achse zu einem Stapel aufeinandergeschichteten und mit Kontaktelementen untereinander verbundenen zylindrischen Widerstandselementen mit unterschiedlichem Durchmesser. Um eine solche Widerstandseinrichtung so zu verbessern, daß sie einen relativ geringen Raumbedarf und eine hohe mechanische Festigkeit aufweist, sind innere Widerstände (6) wie äußere Widerstände (8) kreisringförmig ausgebildet; als Tragkörperausgeführte Kontaktelemente (2) weisen eine Mittenausnehmung (4) auf, die von einer Spannhülse (10) aus Kunststoff durchsetzt ist.

IPC 1-7
H01C 7/12; **H01C 8/04**; **H01C 7/00**; **H01H 33/16**

IPC 8 full level
H01C 7/00 (2006.01); **H01C 7/12** (2006.01); **H01C 8/04** (2006.01)

CPC (source: EP US)
H01C 7/001 (2013.01 - EP US); **H01C 7/12** (2013.01 - EP US); **H01C 8/04** (2013.01 - EP US)

Cited by
EP2034500A1; WO2022184376A1

Designated contracting state (EPC)
AT BE CH GB IT LI NL SE

DOCDB simple family (publication)
EP 0041470 A2 19811209; **EP 0041470 A3 19830518**; CA 1175511 A 19841002; DE 8014833 U1 19800828; US 4363017 A 19821207; ZA 813616 B 19820929

DOCDB simple family (application)
EP 81730048 A 19810514; CA 378599 A 19810529; DE 8014833 U 19800530; US 26630581 A 19810522; ZA 813616 A 19810529