

Title (en)

CONTACT SYSTEM FOR VACUUM SWITCHES WITH AN AXIAL MAGNETIC FIELD

Publication

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Application

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Abstract (en)

[origin: US4935588A] PCT No. PCT/DE87/00124 Sec. 371 Date Sep. 23, 1988 Sec. 102(e) Date Sep. 23, 1988 PCT Filed Mar. 20, 1987 PCT Pub. No. WO87/06052 PCT Pub. Date Oct. 8, 1987. Contact pieces for vacuum switches with axial magnetic field are designed e.g. as cup contacts with slotting in the same direction which support a diskshaped contact body and have means for the suppression of eddy currents. According to the invention, the contact bodies (10, 20, 30, 40, 50) have, at least on their backside, radial areas (15, 25, 35, 45, 55) of markedly lower electrical conductivity than the base material. Such radial areas may be, grooves (15 to 18) on the backside (12) of the contact body (10), diffusion zones (25, 35) of additives reducing the electrical conductivity of the base material, or combinations of the two. If the contact bodies (40,50) are made by powder metallurgical methods, it is also possible to provide the radial areas during production as fillings (45) or as molded parts (55) of a material of lower electrical conductivity than that of the base material.

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