

Title (en)
DC bushing

Title (de)
Gleichstromdurchführung

Title (fr)
Traversée à courant continu

Publication
EP 0795877 A3 19980916 (EN)

Application
EP 97103464 A 19970303

Priority
JP 5759096 A 19960314

Abstract (en)
[origin: EP0795877A2] A DC bushing (24) having an increased DC dielectric strength includes a porcelain tube (1) constituting a lower portion thereof and immersed in an insulating oil contained in a tank (11), a lower insulated shield (5) provided at a lower end portion of the porcelain tube (1) and composed of a shielding electrode (3) covered with an insulating cover (4), and a shield barrier (8) disposed around an outer periphery of the lower insulated shield (5) with an oil gap (7) being defined between the shield barrier (8) and the lower insulated shield (5). The thickness (W2) of the shield barrier (8) is greater than a width (W1) of the oil gap (7) as viewed in a direction widthwise thereof. Alternatively the shield barrier (9) is formed of a solid insulator having a higher volume resistivity than that of oil-impregnated paper or alternatively the shield barrier (8; 9) is realized in such a structure that upon application of a DC voltage, the proportion of the DC voltage to be borne by the shield barrier (8; 9) is higher than 15 % inclusive. <IMAGE>

IPC 1-7
H01B 17/26

IPC 8 full level
H01B 17/34 (2006.01); **H01B 17/28** (2006.01); **H01B 17/44** (2006.01)

CPC (source: EP)
H01B 17/28 (2013.01)

Citation (search report)
• [A] EP 0285895 A1 19881012 - SIEMENS AG [DE]
• [AD] PATENT ABSTRACTS OF JAPAN vol. 5, no. 149 (E - 075) 19 September 1981 (1981-09-19)

Cited by
US7994427B2; CN102682934A; FR2947092A1; EP2528071A1; CN103748641A; US8203409B2; US8890005B2; WO2012163654A1; WO2007111564A1; WO2008027008A1; WO2010146084A1; US8203408B2; US8802993B2

Designated contracting state (EPC)
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