

Title (en)

Process of manufacturing an electrical insulating material with a vacuum high break down voltage

Title (de)

Verfahren zur Herstellung eines elektrischen Isolierungsmaterials mit einer im Vakuum hohen Durchbruchspannung

Title (fr)

Procédé de fabrication d'un isolant électrique à tension de claquage élevée sous vide

Publication

EP 0470910 B1 19970507 (FR)

Application

EP 91402208 A 19910808

Priority

FR 9010258 A 19900810

Abstract (en)

[origin: EP0470910A1] Process for manufacturing an electrical insulator (5) immersed in an intense electrical field, especially between two electrodes (1 and 2) of an electron tube. The insulator (5) is a crystalline body whose free surfaces (7) under vacuum (6) have been treated so as to reduce or eliminate crystallisation defects. The treatment is controlled by measuring a property, especially an optical or mechanical property, of the free surfaces. The breakdown voltage can be multiplied by three or four in relation to conventional insulators and can approach the breakdown voltage of the vacuum. <IMAGE>

IPC 1-7

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IPC 8 full level

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Citation (examination)

"Techniques de l'ingénieur, Essais Mécaniques M127, 1et4 à 7;M128 1."

Cited by

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EP 0470910 A1 19920212; **EP 0470910 B1 19970507**; DE 69125987 D1 19970612; DE 69125987 T2 19971204; FR 2665794 A1 19920214; FR 2665794 B1 19950210; US 5232640 A 19930803

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