

Title (en)

PROCESS AND APPARATUS FOR DRYING THE PAPER INSULATION OF A HIGH-TENSION ELECTROTECHNICAL DEVICE, AND MICROWAVE ENERGY APPLICATOR FOR THIS PURPOSE

Publication

EP 0374062 A3 19900808 (FR)

Application

EP 89420493 A 19891214

Priority

US 28473288 A 19881215

Abstract (en)

[origin: US4889965A] The water and microwave permeable dielectric insulation in an electrotechnical high voltage equipment is dried by means of microwaves. The electrotechnical equipment has a central conductor on which the insulation is wrapped, and it is disposed within an electrically conducting hollow cylinder with its central conductor coaxial with the latter cylinder to form a coaxial, microwave transmission line. Microwaves are propagated through the coaxial transmission line to heat the water in the dielectric insulation, to transform it into water vapor, and to thereby dry the insulation. The microwave transmission line is air-tight and the water vapor is evacuated through a vacuum pump or cold trap.

IPC 1-7

F26B 3/347

IPC 8 full level

F26B 3/347 (2006.01); **H01B 19/00** (2006.01); **H01B 19/02** (2006.01); **H05B 6/78** (2006.01)

CPC (source: EP US)

H05B 6/80 (2013.01 - EP US); **H05B 2206/046** (2013.01 - EP US)

Citation (search report)

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- [Y] DE 3630567 A1 19880310 - ZEPPENFELD KURT DIPL ING [DE]
- [A] US 3430351 A 19690304 - WENNERLUND ERIC, et al
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- [A] FR 2448699 A1 19800905 - CIBA GEIGY AG [CH]

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

US 4889965 A 19891226; AT E73921 T1 19920415; CA 1317643 C 19930511; DE 68901033 D1 19920423; EP 0374062 A2 19900620; EP 0374062 A3 19900808; EP 0374062 B1 19920318; ES 2030999 T3 19921116; GR 3004093 T3 19930331; JP H02201824 A 19900810; JP H0610939 B2 19940209

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