

Title (en)

PROCESS FOR PREPARING SPENT SOLID BODIES FOR THE FINAL DISPOSAL OF RADIOACTIVE WASTES

Publication

EP 0054604 B1 19851113 (DE)

Application

EP 81100979 A 19810212

Priority

DE 3048001 A 19801219

Abstract (en)

[origin: EP0054604A2] 1. Method for producing waste solidification products suitable for final storage and containing radioactive substances with a high radiation resistance and a low radiolytic gas generation, respectively, of the category of the molded radioactive waste bodies which are solidified with hydraulically binding, hardenable, inorganic materials, wherein radioactive, liquid, aqueous and/or radioactive solid wastes are mixed or coated with a cement-water suspension, are allowed to harden and are subjected to a heat treatment, comprising allowing hardening the mixtures of waste and cement-water suspension with a Portland cement klinker containing cement in closed containers at a temperature between room temperature up to 150 degrees C to become molded bodies and subjecting the hardened molded bodies to a heat treatment at normal pressure or negative pressure at temperatures of 100 degrees C up to 250 degrees C at the maximum so as to remove the water still unbound in the pores of the molded bodies.

IPC 1-7

G21F 9/16; **G21F 9/30**

IPC 8 full level

G21F 9/00 (2006.01); **G21F 9/16** (2006.01); **G21F 9/30** (2006.01)

CPC (source: EP)

G21F 9/165 (2013.01); **G21F 9/304** (2013.01)

Cited by

EP0170995A3; FR2939700A1; CN102646455A; EP0137054A1; US8968463B2; WO8501828A1; WO2010066811A1; WO2015049521A1

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