

Title (en)

Process for immobilizing ion-exchangers by hydraulic binding-material.

Title (de)

Verfahren zur Verfestigung von Ionenaustauschermassen durch hydraulisches Bindemittel.

Title (fr)

Procédé d'immobilisation de résines échangeuses d'ions radioactives par liant hydraulique.

Publication

**EP 0294260 A1 19881207 (FR)**

Application

**EP 88401175 A 19880513**

Priority

FR 8706871 A 19870515

Abstract (en)

Method for immobilization of radioactive ion exchange resins by means of a hydraulic binder, particularly borate-containing resins. According to the method, the resins are allowed to settle and brought in contact with an eluent solution of 100-300 g/l in Ca(NO<sub>3</sub>)<sub>2</sub> with a ratio of 1-2 l/kg of settled resins during 3 hours at the most and, to the medium having a pH  $\geq$  9 there is added a hydraulic binder with low hydration heat so that the weight ratio eluent solution water/binder is comprised between 0.3 and 0.5 and the incorporation ratio settled resins/coated product (by weight) is comprised between 3 and 10 %.

IPC 1-7

**G21F 9/16**

IPC 8 full level

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

CPC (source: EP KR)

**G21F 9/16** (2013.01 - KR); **G21F 9/304** (2013.01 - EP)

Citation (search report)

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- [A] DE 2603116 A1 19770811 - NUKEM GMBH
- [A] EP 0157683 A1 19851009 - COMMISSARIAT ENERGIE ATOMIQUE [FR]
- [A] FR 2333331 A1 19770624 - KERNFORSCHUNG GMBH GES FUER [DE]

Cited by

DE4324818A1; DE4324818C2

Designated contracting state (EPC)

BE CH DE ES FR GB IT LI

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**WO 8809040 A1 19881117**; DE 3869481 D1 19920430; EP 0294260 A1 19881207; EP 0294260 B1 19920325; ES 2031254 T3 19921201; FR 2615315 A1 19881118; FR 2615315 B1 19890825; JP 2683779 B2 19971203; JP H01503332 A 19891109; KR 890702212 A 19891223; KR 970011261 B1 19970708

DOCDB simple family (application)

**FR 8800233 W 19880511**; DE 3869481 T 19880513; EP 88401175 A 19880513; ES 88401175 T 19880513; FR 8706871 A 19870515; JP 50431188 A 19880511; KR 890700063 A 19890114