

Title (en)  
IMPROVEMENTS IN OR RELATING TO THE DISPOSAL OF NUCLEAR WASTE

Publication  
**EP 0167403 A3 19861230 (EN)**

Application  
**EP 85304786 A 19850704**

Priority  
US 62797784 A 19840705

Abstract (en)  
[origin: EP0167403A2] A land disposal site for the disposal of nuclear waste material which generally comprises a trench, a non-rigid, water-shedding cap formed from alluvium and silt which overlies this depression, and a solid array of waste-containing modules disposed in the trench for both encapsulating the waste and for supporting the non-rigid cap over the depression. The floor of the trench preferably includes a capillary barrier formed from a layer of gravel so that ground water will not seep up into the modules buried within the disposal site. The top surfaces of the modules are covered with a sloped layer of alluvium, which in turn is covered with another capillary barrier of gravel. This capillary barrier of gravel carries a sloped layer of silt which sheds running surface water and directs it into a pair of drains disposed on either side of the trench. The silt layer is capped with a final layer of graded rip-rap which protects it from wind and water erosion, and which forms a natural radiation and intrusion barrier. Finally, the modules disposed within the disposal site are preferably uniformly shaped, hexagonal prisms which are capable of being solidly packed into a structure which is flexibly conformable with any changes in shape of the trench brought about by seismic or other natural disturbances.

IPC 1-7  
**G21F 9/34**

IPC 8 full level  
**G21F 9/36** (2006.01); **G21F 9/00** (2006.01); **G21F 9/34** (2006.01)

CPC (source: EP KR)  
**G21F 9/34** (2013.01 - EP KR)

Citation (search report)

- DE 3410370 A1 19841031 - NAT NUCLEAR CORP LTD [GB]
- GB 2128801 A 19840502 - BURTON WILLIAM ROBERT
- DE 1539749 B1 19701001 - COMMISSARIAT ENERGIE ATOMIQUE [FR]

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Designated contracting state (EPC)  
BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0167403 A2 19860108; EP 0167403 A3 19861230; EP 0167403 B1 19900509;** BR 8503301 A 19860401; CA 1246879 A 19881220; DE 3577615 D1 19900613; ES 544876 A0 19861216; ES 8702728 A1 19861216; FI 852651 A0 19850704; FI 852651 L 19860106; JP S6135399 A 19860219; KR 860001451 A 19860226; KR 930008245 B1 19930827; PH 25069 A 19910219; YU 107385 A 19901231; ZA 854672 B 19860226

DOCDB simple family (application)  
**EP 85304786 A 19850704;** BR 8503301 A 19850704; CA 485243 A 19850626; DE 3577615 T 19850704; ES 544876 A 19850704; FI 852651 A 19850704; JP 14908685 A 19850704; KR 850004844 A 19850705; PH 32437 A 19850621; YU 107385 A 19850627; ZA 854672 A 19850629