

Title (en)

Radiation screening arrangement for radioactive material transport container

Title (de)

Strahlenschutzvorrichtung für Behälter zum Transport von radioaktiven Stoffen

Title (fr)

Dispositif de protection contre les rayonnements pour conteneur de transport de matières radioactives

Publication

EP 0942435 A1 19990915 (FR)

Application

EP 99420066 A 19990310

Priority

FR 9803331 A 19980313

Abstract (en)

A container (1) for transporting radioactive materials has a radiation shield in the form of a series of adjoining hollow one-piece metal housings (4) bolted to the outer wall of the container and filled with a neutron absorbing material (10). Each housing is tubular in shape and polygonal in cross-section, preferably with four sides. The metal used to make it is aluminum, copper or an alloy of these, and it can have external cooling fins (6). Each housing also contains a plate (8,9) of a heavy metal, preferably lead, to act as a gamma radiation screen and situated close to the container wall.

Abstract (fr)

Dispositif de protection contre les rayonnements pour conteneur de transport et/ou stockage de matières radioactives comportant une pluralité de boîtiers (4) métalliques adjacents fixés sur la paroi extérieure du conteneur et remplis d'au moins un matériau (10) absorbant les neutrons, caractérisé en ce que chaque boîtier est un profilé métallique (5) tubulaire en une seule pièce essentiellement fermé longitudinalement qui peut être rempli de matériaux absorbant les radiations (8,9) avant d'être fixé sur ladite paroi. <IMAGE>

IPC 1-7

G21F 5/008; **G21F 3/00**

IPC 8 full level

G21F 3/00 (2006.01); **G21F 5/00** (2006.01); **G21F 5/002** (2006.01); **G21F 5/005** (2006.01); **G21F 5/008** (2006.01); **G21F 9/36** (2006.01)

CPC (source: EP US)

G21F 3/00 (2013.01 - EP US); **G21F 5/008** (2013.01 - EP US)

Citation (search report)

- [A] GB 2033287 A 19800521 - TRANSNUKLEAR GMBH
- [DA] EP 0087350 A1 19830831 - CREUSOT LOIRE [FR]
- [A] DE 3620737 C1 19871001 - WIEDERAUFARBEITUNG VON KERNBRE
- [A] FR 2454157 A1 19801107 - TRANSNUKLEAR GMBH [DE]
- [A] FR 2471027 A1 19810612 - TRANSNUKLEAR GMBH [DE]

Cited by

FR3143175A1; EP1355320A4; EP1367602A1; EP1418594A1; EP3982375A1; FR3114907A1; WO2024121500A1; US11715576B2

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