

Title (en)
Shock absorbing device for a cask for the containment of radioactive material

Title (de)
Stossdämpfungsvorrichtung für einen Behälter zum Einschluss von radioaktiven Stoffen

Title (fr)
Dispositif amortisseur de chocs pour conteneurs de matières radioactives

Publication
EP 1005049 A1 20000531 (FR)

Application
EP 99402871 A 19991119

Priority
FR 9814868 A 19981123

Abstract (en)
The shock absorber comprises one or more hollow end caps or rings (4,7) covering at least part of the container (1,2) and forming closed chambers filled with elementary components (6) with at least three axes of symmetry, and with a symmetry of rotation of at least 3. The shock absorber comprises one or more hollow end caps or rings (4,7) covering at least part of the container (1,2) and forming closed chambers filled with elementary components (6) with at least three axes of symmetry, and with a symmetry of rotation of at least 3. The elementary components have a center of symmetry where the axes of symmetry meet and are in the shape of spheres or regular polyhedrons, preferably cubes. They are preferably hollow with a constant wall thickness, are made from a metal, preferably steel, aluminum, copper or alloys of these, and have a mean diameter of 20-80 mm.

Abstract (fr)
Dispositif amortisseur de chocs solidaire d'un conteneur de transport ou stockage de matières radioactives caractérisé en ce qu'il comprend au moins un capot (4,7) recouvrant au moins en partie ledit conteneur (1,2) et formant une enceinte fermée remplie d'un empilement de pièces élémentaires (6) ayant au moins trois axes de symétrie concourants dont la symétrie en rotation est au moins d'ordre 3, par exemple de petites sphères pleines ou creuses. <IMAGE>

IPC 1-7
G21F 5/08

IPC 8 full level
G21F 5/00 (2006.01); **G21F 5/008** (2006.01); **G21F 5/08** (2006.01); **G21F 9/36** (2006.01)

CPC (source: EP KR US)
G21F 5/00 (2013.01 - KR); **G21F 5/08** (2013.01 - EP US)

Citation (search report)
• [Y] DE 4025257 A1 19920213 - BIO PACK VERPACKUNGS GMBH CO [DE]
• [Y] FR 1411473 A 19650917 - LEMER & CIE
• [A] EP 0035064 A2 19810909 - NUKEM GMBH [DE]
• [A] DE 3929491 A1 19900315 - EXPLOWELD AB [SE]
• [A] DATABASE WPI Section PQ Week 8740, Derwent World Patents Index; Class Q63, AN 87-282996, XP002111577
• [DA] PATENT ABSTRACTS OF JAPAN vol. 016, no. 218 (P - 1357) 21 May 1992 (1992-05-21)

Cited by
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