

## Title (en)

Packaging for transporting and/or storing radioactive materials including radially stacked radiation protection elements

## Title (de)

Verpackung für den Transport und/oder zur Zwischenlagerung radioaktiver Stoffe, die radial geschichtete Strahlenschutzelemente umfasst

## Title (fr)

Emballage pour le transport et/ou entreposage de matières radioactives comprenant des éléments de protection radiologique empilés radialement

## Publication

**EP 2320429 A1 20110511 (FR)**

## Application

**EP 10190308 A 20101108**

## Priority

FR 0957930 A 20091110

## Abstract (en)

The package has a lateral body (14) with inner and outer concentric metallic collars (22, 24) that jointly form an annular space (18) in which a radiological protection device (20) is housed. The device has radiological protection elements (30, 32) superimposed along radial direction of the package. The elements are in support against the collars, respectively. The elements are in contact with each other along an interface (40) taking form of a truncated or plane segment inclined at a right side with respect to a longitudinal axis of the package. The segment forms angle of 1 and 10 degrees. An independent claim is also included for a method for forming a package.

## Abstract (fr)

L'invention se rapporte à un emballage (2) pour le transport/entreposage de matières radioactives, comprenant deux viroles concentriques entre lesquelles est logé un dispositif de protection radiologique formant barrière contre les rayonnements gamma, comportant un premier et un second éléments métalliques de protection radiologique (30, 32) superposés selon une direction radiale de l'emballage, le premier élément (30) étant en appui contre la virole extérieure (24) et le second élément (32) étant en appui contre la virole intérieure (22). De plus, les éléments (30, 32) sont au contact l'un de l'autre selon une interface (40) prenant, en coupe selon un plan quelconque intégrant l'axe longitudinal (8), la forme d'un segment de droite incliné par rapport à cet axe.

## IPC 8 full level

**G21F 3/00** (2006.01); **G21F 5/10** (2006.01); **G21F 5/008** (2006.01)

## CPC (source: EP US)

**G21F 3/00** (2013.01 - EP US); **G21F 5/10** (2013.01 - EP US); **G21F 5/008** (2013.01 - EP US); **Y10T 29/49826** (2015.01 - EP US)

## Citation (search report)

- [Y] US 4453081 A 19840605 - CHRIST RICHARD [DE], et al
- [Y] US 5641970 A 19970624 - TANIUCHI HIROAKI [JP], et al
- [A] JP 2007139677 A 20070607 - HITACHI LTD
- [A] JP H0436697 A 19920206 - KOBE STEEL LTD

## Cited by

CN105453186A

## Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

## Designated extension state (EPC)

BA ME

## DOCDB simple family (publication)

**EP 2320429 A1 20110511**; **EP 2320429 B1 20131211**; ES 2452568 T3 20140402; FR 2952468 A1 20110513; FR 2952468 B1 20120113; JP 2011102800 A 20110526; JP 5790984 B2 20151007; KR 20110052489 A 20110518; US 2012007004 A1 20120112; US 9142327 B2 20150922

## DOCDB simple family (application)

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