Title (en)

NEUTRON SHIELDING DEVICE FOR RADIO-ACTIVE MATERIAL

Publication

EP 0087350 B1 19860430 (FR)

Application

EP 83400285 A 19830210

Priority

FR 8202300 A 19820212

Abstract (en)

[origin: EP0087350A1] 1. Neutron-shielding device covering the outer wall of the enclosure of a receptacle containing a radioactive product, said device essentially comprising a neutro-absorbing substance arranged round the enclosure of the receptacle and a plurality of identical members (4) which have the general shape of a single strip of sheet metal extending with its largest dimension along the generatrices of the enclosure of the receptacle and whose cross-section has a curved outline continuing over its entire length, the said identical members being arranged uniformly all around and following radial directions relative to the axis of symmetry of the enclosure of the receptacle and having one of their edges, taken along the largest dimension of the sheet metal strips, connected directly to the enclosure, which device is characterized in that each member (4) is connected to the following member (4) and the members (4) are connected to the enclosure (1) so that they form, all around the enclosure (1), closed, adjoining cavities (16) in which three of the four walls which are parallel to the axis of the device consist of the two members (4) and in which the fourth consists of the enclosure (1), and the neutro-absorbing substance is enclosed in the said cavities (16) which are thus formed.

IPC 1-7

G21F 5/00

IPC 8 full level

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

CPC (source: EP)

G21F 5/008 (2013.01)

Cited by

EP1524673A4; EP0343410A3; US4896046A; EP0942435A1; FR2776118A1; FR2974228A1; EP1355320A4; KR20140007921A; EP1008994A1; DE19856685A1; US4997618A; FR3042635A1; FR3049756A1; US9040946B2; US10522260B2; US6195404B1; WO2012143224A1; WO2017064174A1; WO2017167853A1

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DOCDB simple family (application)

EP 83400285 A 19830210; AT 83400285 T 19830210; DE 3363237 T 19830210; FR 8202300 A 19820212; JP 1953783 A 19830208