

Title (en)

CONTAINER FOR STORING AND TRANSPORTING SPENT NUCLEAR FUEL

Title (de)

CONTAINER ZUM AUFBEWAHREN UND TRANSPORTIEREN VON VERBRAUCHTEM KERNBRENNSTOFF

Title (fr)

CONTENEUR POUR LE STOCKAGE ET LE TRANSPORT DE COMBUSTIBLE NUCLÉAIRE ÉPUISÉ

Publication

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Application

EP 17899513 A 20170308

Priority

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Abstract (en)

The invention relates to a container for storing and transporting spent nuclear fuel, which comprises a body formed by a cylindrical steel vessel (1), closed at the bottom and provided with an upper bolted closure system equipped with leaktight sealing means, which provides structural resistance of the container and neutron shielding to the fuel, the vessel accommodating an inner frame (4) formed by a grate of stainless steel sheets (41) that define a plurality of cells (42), each one being suitable to contain a tube (5) having a cross section equivalent to that of the cells, there being arranged around said cells (42) aluminium alloy guides (43, 44) having rectangular and triangular cross sections, which transfer decay heat from the frame (4) to the steel vessel (1), the outside of the vessel having a set of heat-dissipating aluminium profiles (2), a neutron shielding material (3) being contained in spaces between the profiles.

IPC 8 full level

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CPC (source: EP KR)

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