

Title (en)

CONTAINER SYSTEM FOR THE TRANSPORT AND STORAGE OF HIGHLY REACTIVE MATERIALS

Title (de)

BEHÄLTERSYSTEM ZUM TRANSPORT UND ZUR LAGERUNG HOCHRADIOAKTIVER MATERIALIEN

Title (fr)

SYSTEME DE CONTENANTS POUR LE TRANSPORT ET LE STOCKAGE DE MATERIAUX FORTEMENT RADIOACTIFS

Publication

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Application

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Abstract (en)

[origin: WO2004001766A2] The invention relates to a container system for the transport and storage of highly reactive materials, which comprises an outer container (1) that encompasses at least one inner container (2) in which the radioactive material is disposed. The inner container (2) is resiliently received in the inner container so as to absorb shocks. The outer container (1) comprises a cylinder (4) whose jacket (5) consists of prestressed reinforced concrete molded by centrifugal action and is provided with a lid (6) and a bottom plate (7) that consist of reinforced concrete. Like the outer container (1), an intermediate container may consist of prestressed reinforced concrete molded by centrifugal action and may encompass the inner container (2). Preferably, the concrete parts of the outer container (1) and the intermediate container (3) are provided with, e.g., boron oxide as an additional neutron absorber. The resilient mounting of the inner container (3) or the intermediate container (3) consists of a plurality of spring elements (10, 11) that encompass, side by side, in the longitudinal direction of the jacket (5) and on all sides thereof, the intermediate container (3) or the inner container (2). The spring elements (10, 11) for their part are provided with shock absorbers.

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