

Title (en)
SHIELDED CONTAINER FOR THE TRANSPORT AND STORAGE OF A RADIOACTIVE MATERIAL

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Application
EP 84402121 A 19841022

Priority
FR 8316914 A 19831024

Abstract (en)
[origin: EP0143033A1] 1. Shielded container for transporting and storing a radioactive load, the container being made of a material which absorbs gamma radiation, discharging towards the outside the thermal energy released by the load and having : a first constituent part (3) comprising a thick cylindrical envelope enclosing the load in a longitudinal central cavity and a second constituent part (11) comprising two spaced coaxial cylinders which enclose between them a material which absorbs neutron radiation, are connected to one another by thermal conduction means (15) and are provided, towards the outside, with heat dissipation fins (16), a clearance constituting a thin layer of air (1) performing a function of thermal insulation and appearing when the container is caught in a fire, characterized in that, when the first and second constituent parts are at ambient temperature, the inner cylinder (12) of the second constituent part (11) is mounted without mechanical clearance on the first constituent part (3), in that, during the normal functioning of the container, a radioactive load being present in the said longitudinal central cavity, the inner cylinder (12) of the second constituent part (11) is mounted with a tight fit on the first constituent part (3), in that the said clearance constituting a thin layer of air (1) appears between the inner cylinder (12) and the first constituent part (3), and in that the two coaxial cylinders (12 and 13), the thermal conduction means (15) and the fins (16) are cast as a single piece from spheroidal graphite iron.

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