

Title (en)

Process for producing a neutron-absorbing coating

Title (de)

Verfahren zur Herstellung einer Beschichtung zur Absorption der bei der Kernreaktion radioaktiver Materialien entstehenden Neutronen

Title (fr)

Procédé de production d'un revêtement qui absorbe des neutrons

Publication

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Application

**EP 99118989 A 19990927**

Priority

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Abstract (en)

[origin: WO0124198A1] The invention relates to a method for producing a coating for absorption of neutrons produced in nuclear reactions of radioactive materials which can be applied in an economically feasible and simple manner, increases the effectivity of absorption, enables greater variability of base material used and variability of shape of said shielding elements and in particular the production of lighter shielding elements with at least the same absorption quality. The invention also relates to a method for producing a coating for absorption of neutrons produced in nuclear reactions of radioactive materials. At least one part of a shielding element consisting of base material is provided at its surface designed therefor with a layer made of an element with a high neutron capture section and a metallic element in a dispersion bath. Said metallic element can be deposited by electrolytic or autocatalytic means. During the coating process, a relative movement between a surface to be coated and a dispersion bath is effected at least temporarily, whereby the element with a larger neutron capture section is present in an electrically conducting compound in said dispersion bath.

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