

Title (en)
A neutron amplifier assembly

Title (de)
Neutronverstärkungsanlage

Title (fr)
Dispositif multiplicateur de neutrons

Publication
EP 1047083 B1 20030730 (EN)

Application
EP 99107327 A 19990420

Priority
EP 99107327 A 19990420

Abstract (en)
[origin: EP1047083A1] This invention relates to a neutron amplifier assembly comprising an array of fissile material which is subjected to a primary neutron flux. According to the invention a thin layer (1) of fissile material is located on the inner surface of a hollow support cylinder (2) of moderator material, the fissile material layer thickness and the inner diameter of said cylinder being chosen such that the array is close to criticality. <IMAGE>
[origin: EP1047083A1] The neutron amplifier assembly comprises an array of a thin fissile material layer (1) on an inner surface of a hollow support moderator material cylinder (2) which is subjected to a primary neutron flux. The fissile material layer thickness and the inner diameter of the cylinder are chosen to configure the array close to criticality.

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