

Title (en)

METHOD FOR MANUFACTURING A NUCLEAR FUEL ELEMENT, AND NUCLEAR FUEL ELEMENT

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES KERNBRENNSTOFFELEMENTS UND KERNBRENNSTOFFELEMENT

Title (fr)

PROCÉDÉ DE FABRICATION D'UN ÉLÉMENT DE COMBUSTIBLE NUCLÉAIRE ET ÉLÉMENT DE COMBUSTIBLE NUCLÉAIRE

Publication

**EP 4367686 A1 20240515 (FR)**

Application

**EP 22747964 A 20220706**

Priority

- FR 2107291 A 20210706
- EP 2022068676 W 20220706

Abstract (en)

[origin: WO2023280897A1] The manufacturing method comprises the obtaining of a core (4), the coating of the core (4) with an anti-diffusion layer (8) so as to obtain a coated core (10), the insertion of the coated core (10) into a cladding (6) with interposition, between the coated core (10) and the cladding (6), of one or more intermediate layers (12), and the pressing of the multilayer assembly (22) thus obtained, each intermediate layer (12) being made from a ductile metal alloy and/or a metal alloy having a conventional yield strength that does not differ by more than 30% from that of the material of the cladding (6), an elongation at break that does not differ by more than 30% from that of the material of the cladding (6) and/or a distributed relative elongation that does not differ by more than 30% from that of the material of the cladding (6).

IPC 8 full level

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CPC (source: EP)

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