

Title (en)

NUCLEAR FUEL ASSEMBLY WITH A REINFORCEMENT DEVICE

Title (de)

KERNBRENNSTABBÜNDEL MIT EINER VERSTÄRKUNGSVORRICHTUNG

Title (fr)

ASSEMBLAGE DE COMBUSTIBLE NUCLÉAIRE MUNI D'UN DISPOSITIF DE RENFORT

Publication

EP 4035182 A1 20220803 (FR)

Application

EP 20775306 A 20200923

Priority

- FR 1910509 A 20190924
- EP 2020076569 W 20200923

Abstract (en)

[origin: WO2021058565A1] The assembly comprises nuclear fuel rods (4) extending along a longitudinal axis (L) and a skeletal support member (6) configured to support the nuclear fuel rods (4), the skeletal support member (6) comprising two end pieces (8, 10), a plurality of guide tubes (12) connecting the end pieces (8, 10) to each other, spacing grids (14) attached to the guide tubes (12), each spacing grid (14) supporting the nuclear fuel rods (4), the nuclear fuel assembly further comprising at least one reinforcement device (20) comprising at least one reinforcement plate (22) which is in contact with at least two of the guide tubes (12) and attached to one or more of the guide tubes (12) at attachment points (21), each reinforcement plate (22) having at least two attachment points (21) that are offset relative to each other along the longitudinal axis (L).

IPC 8 full level

G21C 3/32 (2006.01); **G21C 3/322** (2006.01); **G21C 7/08** (2006.01)

CPC (source: CN EP KR US)

G21C 3/32 (2013.01 - EP); **G21C 3/322** (2013.01 - CN EP KR); **G21C 3/352** (2013.01 - US); **G21C 3/356** (2013.01 - CN); **G21C 7/08** (2013.01 - EP KR); **G21C 7/10** (2013.01 - US); **Y02E 30/30** (2013.01 - EP KR)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3101187 A1 20210326; **FR 3101187 B1 20211210**; AR 120031 A1 20220126; CN 114450757 A 20220506; EP 4035182 A1 20220803; KR 20220098719 A 20220712; US 2022328201 A1 20221013; WO 2021058565 A1 20210401; ZA 202203399 B 20230927

DOCDB simple family (application)

FR 1910509 A 20190924; AR P200102634 A 20200922; CN 202080067114 A 20200923; EP 2020076569 W 20200923; EP 20775306 A 20200923; KR 20227009787 A 20200923; US 202017761954 A 20200923; ZA 202203399 A 20220323