Title (en)

NUCLEAR ENERGY CONVERTER

Title (de)

KERNENERGIEWANDLER

Title (fr)

CONVERTISSEUR D'ÉNERGIE NUCLÉAIRE

Publication

EP 2241164 A1 20101020 (DE)

Application

EP 09705648 A 20090124

Priority

- DE 2009000101 W 20090124
- DE 102008007309 A 20080202
- DE 102008012269 A 20080303
- DE 102008032675 A 20080712
- DE 102008044661 A 20080903

Abstract (en)

[origin: DE102008007309A1] The assembly to break down or melt nuclei has a system to recover energy from the electrons. An electrode (1) is within a hollow body (7) with insulation (8) against it, connected to the plus pole of a voltage supply (2). The minus pole is earthed (8). The electrode tip carries material (3) heated by a laser beam (11), within a protective radioactive shrouding tube (4), to release the electrons as the material is heated and converted into energy. The electrons are taken off through the voltage supply. An inert gas from an inflow (6) passes through openings (10) in the shrouding tube.

IPC 8 full level

H05H 1/22 (2006.01); **H05H 6/00** (2006.01)

CPC (source: EP US)

G21B 1/19 (2013.01 - EP US); **G21D 7/00** (2013.01 - EP US); **H05H 6/00** (2013.01 - EP US); Y02E 30/00 (2013.01 - EP); Y02E 30/10 (2013.01 - EP US); Y02E 30/30 (2013.01 - US)

Citation (search report)

See references of WO 2009094992A1

Citation (examination)

- US 3967215 A 19760629 - BELLAK JOHANNES G
- US 3489645 A 19700113 - DAIBER JOHN W, et al
- DE 19706136 A1 19971023 - GANGKOFNER MAX [DE]
- SCHEIN ET AL.: "Enhanced hohlraum radiation drive through reduction of wall losses with high-Z mixture "cocktail" wall materials" - UCRL-JRNL-221689 - 30 May 2006 - https://e-reports-ext.llnl.gov/pdf/333988.pdf", INTERNET CITATION, vol. UCRL-JRNL-221689, 30 May 2006 (2006-05-30), Retrieved from the Internet <URL:https://e-reports-ext.llnl.gov/pdf/333988.pdf> [retrieved on 20160713]

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

DE 102008007309 A1 20090806; CN 101960927 A 20110126; DE 102008012269 A1 20091008; DE 102008032675 A1 20100114; DE 102008044661 A1 20100304; DE 112009000758 A5 20101230; EP 2241164 A1 20101020; JP 2011511278 A 20110407; RU 2010131325 A 20120310; US 2011170646 A1 20110714; WO 2009094992 A1 20090806

DOCDB simple family (application)

DE 102008007309 A 20080202; CN 200980103158 A 20090124; DE 102008012269 A 20080303; DE 102008032675 A 20080712; DE 102008044661 A 20080903; DE 112009000758 T 20090124; DE 2009000101 W 20090124; EP 09705648 A 20090124; JP 2010544577 A 20090124; RU 2010131325 A 20090124; US 86352409 A 20090124