

Title (en)

REDUCING THE COULOMBIC BARRIER TO INTERACTING REACTANTS

Title (de)

VERRINGERUNG DER COULOMBISCHEN BARRIERE ZUR INTERAKTION VON REAKTANDEN

Title (fr)

RÉDUCTION DE LA BARRIÈRE DE COULOMB EN RÉACTIFS INTERAGISSANTS

Publication

EP 3622532 A1 20200318 (EN)

Application

EP 18798890 A 20180504

Priority

- US 201715589902 A 20170508
- US 201715589913 A 20170508
- US 201715589886 A 20170508
- US 201715589905 A 20170508
- US 201762503680 P 20170509
- US 2018031244 W 20180504

Abstract (en)

[origin: WO2018208623A1] Methods, apparatuses, devices, and systems for producing and controlling and fusion activities of nuclei. Hydrogen atoms or other neutral species (neutrals) are induced to rotational motion in a confinement region as a result of ion-neutral coupling, in which ions are driven by electric and magnetic fields. The controlled fusion activities cover a spectrum of reactions including aneutronic reactions such as proton-boron-11 fusion reactions.

IPC 8 full level

G21B 1/19 (2006.01); **G21B 1/03** (2006.01); **G21B 1/05** (2006.01); **G21B 1/11** (2006.01); **H05H 1/12** (2006.01); **H05H 6/00** (2006.01)

CPC (source: EP KR)

G21B 3/006 (2013.01 - EP KR); **H05H 1/02** (2013.01 - EP); **H05H 1/12** (2013.01 - KR); **H05H 1/16** (2013.01 - EP KR); **H05H 6/00** (2013.01 - KR); **Y02E 30/10** (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)

WO 2018208623 A1 20181115; CA 3063114 A1 20181115; CN 111133528 A 20200508; EP 3622532 A1 20200318; EP 3622532 A4 20210120; JP 2020519892 A 20200702; JP 2022191419 A 20221227; JP 7478793 B2 20240507; KR 20200032670 A 20200326; KR 20240005998 A 20240112

DOCDB simple family (application)

US 2018031244 W 20180504; CA 3063114 A 20180504; CN 201880045758 A 20180504; EP 18798890 A 20180504; JP 2019562358 A 20180504; JP 2022165879 A 20221014; KR 20197036299 A 20180504; KR 20237044809 A 20180504