

Title (en)

METHOD AND APPARATUS FOR COMPRESSING PLASMA TO A HIGH ENERGY STATE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR PLASMAKOMPRESSION MIT HOHEM ENERGIEZUSTAND

Title (fr)

PROCÉDÉ ET APPAREIL POUR COMPRIMER UN PLASMA JUSQU'À UN ÉTAT DE HAUTE ÉNERGIE

Publication

**EP 2777047 A1 20140917 (EN)**

Application

**EP 11875462 A 20111109**

Priority

US 2011001879 W 20111109

Abstract (en)

[origin: WO2013070179A1] A compressor assembly and the method of using the same which includes an elongated spiral passageway within which a compact toroid plasma, such as a compact toroid plasma structure, can be efficiently compressed to a high-energy state by compressing the compact toroid plasma structure by its own momentum against the wall of the spiral passageway in a manner to induce heating by conservation of energy. The compressor assembly also includes a burn chamber that is in communication with the spiral passageway and into which the compressed compact toroid plasma structure is introduced following its compression.

IPC 8 full level

**G21B 1/05** (2006.01); **G21B 1/03** (2006.01); **G21B 3/00** (2006.01); **H05H 1/12** (2006.01)

CPC (source: EP)

**G21B 1/00** (2013.01); **G21B 1/052** (2013.01); **G21B 3/006** (2013.01); **H05H 1/12** (2013.01); **Y02E 30/10** (2013.01)

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

DOCDB simple family (publication)

**WO 2013070179 A1 20130516**; CA 2858967 A1 20130516; CN 104067349 A 20140924; EP 2777047 A1 20140917; EP 2777047 A4 20150617; IN 3388DEN2014 A 20150605; JP 2015501918 A 20150119; KR 20140102170 A 20140821

DOCDB simple family (application)

**US 2011001879 W 20111109**; CA 2858967 A 20111109; CN 201180074770 A 20111109; EP 11875462 A 20111109; IN 3388DEN2014 A 20140428; JP 2014541010 A 20111109; KR 20147000825 A 20111109