Title (en)
SYSTEMS AND METHODS FOR CONTROLLING REACTIVITY IN A NUCLEAR FISSION REACTOR

Title (de)
SYSTEME UND VERFAHREN ZUR STEUERUNG DER REAKTIVITÄT IN EINEM KERNFISSIONSREAKTOR

Title (fr)
SYSTÈMES ET PROCÉDÉS DE CONTRÔLE DE LA RÉACTIVITÉ DANS UN RÉACTEUR DE FISSION NUCLÉAIRE

Publication
EP 2497090 A4 20141217 (EN)

Application
EP 10844849 A 20101105

Priority
- US 65773410 A 20100125
- US 65773610 A 20100125
- US 59044709 A 20091106
- US 2010002908 W 20101105

Abstract (en)
[origin: WO2011093840A2] Illustrative embodiments provide a reactivity control assembly for a nuclear fission reactor, a reactivity control system for a nuclear fission reactor having a fast neutron spectrum, a nuclear fission traveling wave reactor having a fast neutron spectrum, a method of controlling reactivity in a nuclear fission reactor having a fast neutron spectrum, methods of operating a nuclear fission traveling wave reactor having a fast neutron spectrum, a system for controlling reactivity in a nuclear fission reactor having a fast neutron spectrum, a method of determining an application of a controllably movable rod, a system for determining an application of a controllably movable rod, and a computer program product for determining an application of a controllably movable rod.

IPC 8 full level
G21C 1/02 (2006.01); G21C 7/103 (2006.01); G21C 7/24 (2006.01); G21C 17/12 (2006.01); G21D 3/00 (2006.01)

CPC (source: EP KR)
G21C 1/024 (2013.01 - EP); G21C 1/026 (2013.01 - EP); G21C 7/08 (2013.01 - KR); G21C 7/103 (2013.01 - EP); G21C 7/24 (2013.01 - EP); G21C 17/12 (2013.01 - EP); G21D 3/00 (2013.01 - EP); Y02E 30/00 (2013.01 - EP); Y02E 30/30 (2013.01 - EP)

Citation (search report)
- [XA] US 2008123794 A1 20080529 - MERTYUREK UGUR [US], et al
- [XA] US 2009080585 A1 20090326 - FARAWILA YOUSEF [US]
- [IA] US 4770840 A 19880913 - LEROY CLAUDE [FR], et al
- [A] US 2009252273 A1 20091008 - GILLELAND JOHN ROGERS [US], et al

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 2011093840 A2 20110804; WO 2011093840 A3 20111110; WO 2011093840 A4 20120126; CN 102714063 A 20121003; CN 102714063 B 20160622; CN 102714065 A 20121003; CN 102714065 B 20160824; CN 102725800 A 20121010; CN 102725800 B 20160601; EP 2497086 A2 20120912; EP 2497086 A4 20141217; EP 2497086 B1 20170322; EP 2497090 A2 20120912; EP 2497090 A4 20141217; EP 2499643 A2 20120919; JP 2013510308 A 20130321; JP 2013510311 A 20130321; JP 2013510312 A 20130321; JP 6026886 B2 20161116; JP 6037835 B2 20161207; JP 6071555 B2 20170201; KR 20120083513 A 20120725; KR 20120087166 A 20120806; KR 20120093331 A 20120822; RU 2012120914 A 20131220; RU 2012120921 A 20131220; RU 2012120922 A 20131220; RU 2553468 C2 20150620; RU 2553979 C2 20150620; RU 2553979 C9 20151010; RU 2555363 C2 20150710; RU 2555363 C9 20151020; WO 2011093843 A2 20110804; WO 2011093843 A3 20111020; WO 2011093844 A2 20110804; WO 2011093844 A3 20111020

DOCDB simple family (application)
US 2010002904 W 20101105; CN 201080060897 A 20101105; CN 201080060900 A 20101105; CN 201080060901 A 20101105; EP 10844846 A 20101105; EP 10844849 A 20101105; EP 10844850 A 20101105; JP 2012537856 A 20101105; JP 2012537859 A 20101105; JP 2012537860 A 20101105; KR 20127014606 A 20101105; KR 20127014607 A 20101105; KR 20127014608 A 20101105; RU 2012120914 A 20101105; RU 2012120921 A 20101105; RU 2012120922 A 20101105; US 2010002908 W 20101105; US 2010002910 W 20101105