

Title (en)
FLUID HEATER

Title (de)
FLÜSSIGKEITSERHITZER

Title (fr)
DISPOSITIF CHAUFFANT POUR FLUIDE

Publication
EP 3049733 A4 20170322 (EN)

Application
EP 15827258 A 20150728

Priority
• US 201461999582 P 20140801
• US 2015042353 W 20150728

Abstract (en)
[origin: WO2016018851A1] An apparatus for heating fluid includes a tank for holding fluid to be heated, and a fuel wafer in fluid communication with the fluid. The fuel wafer includes a fuel mixture including reagents and a catalyst, and an electrical resistor or other heat source in thermal communication with the fuel mixture and the catalyst.

IPC 8 full level
F24V 30/00 (2018.01)

IPC 8 main group level
F24V 30/00 (2018.01)

CPC (source: EP MX RU)
F24V 30/00 (2018.04 - EP MX RU)

Citation (search report)
• [A] US 2008131316 A1 20080605 - ECKELS J DEL [US], et al
• [A] US 2010226829 A1 20100909 - HORIGUCHI TOSHIO [JP], et al
• [A] US 2004234699 A1 20041125 - HALE RON L [US], et al
• [A] US 2010252023 A1 20101007 - COFFEY BRENDAN [US], et al
• [A] US 2011005506 A1 20110113 - ROSSI ANDREA [IT]
• See references of WO 2016018851A1

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 2016018851 A1 20160204; AU 2015296800 A1 20160407; AU 2015296800 B2 20160505; BR 112016013488 A2 20170321; BR 112016013488 B1 20180612; CA 2920500 A1 20160204; CA 2920500 C 20160906; CL 2016001856 A1 20170324; CN 106133457 A 20161116; CN 106133457 B 20180727; CY 1119675 T1 20180404; DK 3049733 T3 20180102; EP 3049733 A1 20160803; EP 3049733 A4 20170322; EP 3049733 B1 20170927; ES 2652548 T3 20180205; HR P20171960 T1 20180223; HU E036258 T2 20180628; JP 2017523369 A 20170817; JP 6145808 B1 20170614; LT 3049733 T 20180212; MX 2016002006 A 20160803; MX 348291 B 20170605; NO 2788577 T3 20180728; PL 3049733 T3 20180330; PT 3049733 T 20171222; RS 56749 B1 20180330; RU 2628472 C1 20170817; SI 3049733 T1 20180228; ZA 201604152 B 20161130

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US 2015042353 W 20150728; AU 2015296800 A 20150728; BR 112016013488 A 20150728; CA 2920500 A 20150728; CL 2016001856 A 20160721; CN 201580013552 A 20150728; CY 171101307 T 20171213; DK 15827258 T 20150728; EP 15827258 A 20150728; ES 15827258 T 20150728; HR P20171960 T 20171219; HU E15827258 A 20150728; JP 2016567541 A 20150728; LT 15827258 T 20150728; MX 2016002006 A 20150728; NO 12806782 A 20121207; PL 15827258 T 20150728; PT 15827258 T 20150728; RS P20171313 A 20150728; RU 2016129722 A 20150728; SI 201530147 T 20150728; ZA 201604152 A 20160620