

Title (en)
INDUCTION HEATING DEVICE

Title (de)
INDUKTIONSGEIZVORRICHTUNG

Title (fr)
DISPOSITIF DE CHAUFFAGE À INDUCTION

Publication
EP 2914059 A4 20151104 (EN)

Application
EP 13848712 A 20131023

Priority
• JP 2012234386 A 20121024
• JP 2012234387 A 20121024
• JP 2013111631 A 20130528
• JP 2013111632 A 20130528
• JP 2013006265 W 20131023

Abstract (en)
[origin: EP2914059A1] An induction heating device is configured that a control part controls a first semiconductor switch, a second semiconductor switch, and a third semiconductor switch to selectively drives a simultaneous heating mode supplying a high-frequency power to a first heating coil and a second heating coil at the same time, a first single heating mode supplying a high-frequency power to the second heating coil, a second single heating mode supplying a high-frequency power to the first heating coil, an alternate heating mode alternately repeating the first single heating mode and the second single heating mode, and a step-down simultaneous heating mode supplying the high-frequency power to the first heating coil and the second heating coil at the same time.

IPC 8 full level
H05B 6/06 (2006.01)

CPC (source: EP)
H05B 6/065 (2013.01); **H05B 2213/03** (2013.01); **H05B 2213/05** (2013.01)

Citation (search report)
• [A] US 5951904 A 19990914 - JUNG YONG-CHAE [KR], et al
• [A] DE 19654268 A1 19970703 - LG ELECTRONICS INC [KR]
• [A] EP 2405714 A1 20120111 - MITSUBISHI ELECTRIC CORP [JP], et al
• [A] EP 2170010 A2 20100331 - HITACHI LTD [JP]
• See references of WO 2014064932A1

Cited by
EP3432682A1; EP3820247A1; US10993292B2; US10893579B2; US11140751B2; US11272583B2; EP3641497A1; US11212880B2; US10605464B2; US11655984B2; EP3809800B1

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)
EP 2914059 A1 20150902; EP 2914059 A4 20151104; EP 2914059 B1 20171206; CN 104604328 A 20150506; CN 104604328 B 20160706; JP WO2014064932 A1 20160908; WO 2014064932 A1 20140501

DOCDB simple family (application)
EP 13848712 A 20131023; CN 201380045234 A 20131023; JP 2013006265 W 20131023; JP 2014543151 A 20131023