

Title (en)
INDUCTION-HEATING COOKER

Title (de)
INDUKTIONSERWÄRMUNGSHERD

Title (fr)
APPAREIL DE CUISSON À INDUCTION

Publication
EP 3675599 A1 20200701 (EN)

Application
EP 18849140 A 20180724

Priority
• JP 2017160711 A 20170824
• JP 2018027581 W 20180724

Abstract (en)
An induction-heating cooker includes: a direct-current power supply; first to fourth switching elements; a first resonant circuit including a first heating coil and a first resonant capacitor; a second resonant circuit including a second heating coil and a second resonant capacitor; a third resonant capacitor; and a controller. The first and second switching elements are connected in series between output terminals of the direct-current power supply. The third and fourth switching elements are connected in series between the output terminals of the direct-current power supply. One end of the first resonant circuit is connected to a connection point between the first and second switching elements. The second resonant circuit has one end connected to a connection point between the third and fourth switching elements and the other end connected to the other end of the first resonant circuit. The third resonant capacitor is connected between the positive or negative output terminal of the direct-current power supply and a connection point between the first and second resonant circuits. The controller controls the first to fourth switching elements.

IPC 8 full level
H05B 6/12 (2006.01)

CPC (source: EP)
H05B 6/062 (2013.01); **H05B 2213/05** (2013.01)

Cited by
GB2597762A; WO2024112743A1

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 3675599 A1 20200701; **EP 3675599 A4 20200826**; **EP 3675599 B1 20210901**; CN 111034354 A 20200417; CN 111034354 B 20210803; JP 7001892 B2 20220210; JP WO2019039166 A1 20200820; WO 2019039166 A1 20190228

DOCDB simple family (application)
EP 18849140 A 20180724; CN 201880050962 A 20180724; JP 2018027581 W 20180724; JP 2019538005 A 20180724