

Title (en)
INDUCTION HEATING COOKER

Title (de)
INDUKTIONSHERD

Title (fr)
CUISINIÈRE À CHAUFFAGE PAR INDUCTION

Publication
EP 3267766 A4 20180314 (EN)

Application
EP 16758640 A 20160302

Priority
• JP 2015043074 A 20150305
• JP 2016001127 W 20160302

Abstract (en)
[origin: EP3267766A1] An induction heating cooker includes a drive circuit, multiple heating coils, and relay circuit (31). The drive circuit converts an AC power supply to high-frequency electric power. The multiple heating coils are disposed to metallic shielding plate (24), and generate a high-frequency magnetic field upon receiving the high-frequency electric power. The relay circuit includes multiple relays (32) that switch the connections, in response to a signal supplied from the drive circuit, between the drive circuit and the multiple heating coils, and is coupled to the heating coils via connection wire (27). Relay circuit (31) is mounted to holder (26) provided to shielding plate (24) on a face opposite to a face where the heating coils are provided. The structure discussed above allows a wiring work to be done firstly between relay circuit (31) and the heating coils, and then allows a wiring work to be done between relay circuit (31) and the drive circuit. As a result, noises can be reduced, and this induction heating cooker can be assembled more efficiently. On top of that, the number of components to be commonly used in other models can be increased.

IPC 8 full level
H05B 6/12 (2006.01)

CPC (source: EP)
H05B 6/1209 (2013.01); **H05B 2206/022** (2013.01); **H05B 2213/03** (2013.01)

Citation (search report)
• [X] EP 2427032 A2 20120307 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
• [X] DE 10011773 A1 20010927 - AEG HAUSGERAETE GMBH [DE], et al
• [X] EP 2475220 A1 20120711 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
• [X] EP 2595450 A2 20130522 - BSH ELECTRODOMESTICOS ESPANA [ES]
• [E] EP 3030042 A1 20160608 - ELECTROLUX APPLIANCES AB [SE]
• See references of WO 2016139942A1

Cited by
EP4009742A1; EP4090133A1; EP3441676A1; EP3441678A1; US11310874B2; US11405989B2; US11388785B2; EP3544375A1; WO2022117368A1; WO2022238139A1

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)
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DOCDB simple family (application)
EP 16758640 A 20160302; JP 2016001127 W 20160302; JP 2017503351 A 20160302