

Title (en)

INDUCTION HOB HAVING COOLING DEVICE WITH AXIAL FAN

Title (de)

INDUKTIONSKOCHFELD MIT KÜHLVORRICHTUNG MIT AXIALLÜFTER

Title (fr)

PLAQUE DE CUISSON À INDUCTION DOTÉE D'UN DISPOSITIF DE REFROIDISSEMENT À VENTILATEUR AXIAL

Publication

EP 4035503 A4 20230607 (EN)

Application

EP 19955192 A 20191118

Priority

TR 2019050966 W 20191118

Abstract (en)

[origin: WO2021112776A1] The present invention relates to an induction hob with a cooling device (40) comprising a casing (10); an induction element (50) connected to an electronic device (30) disposed on a lower sheet (12) of the casing (10); a magnetic permeable planar top plate (20) covers top of the casing (10) such that confine an air duct (18) with a predetermined channel height (H) under a magnetic field distance providing a cooking operation with the induction element (50). The cooling device (50) is having an axial fan (43) arranged on the lower sheet (12) of the casing (10) such that rotational speed create an air flow path (F) inside the air duct (18) directly hit the top plate (20) from the lower sheet (12) in order to manipulate the air through the induction element (50) when the axial fan (43) is energized.

IPC 8 full level

H05B 6/12 (2006.01); **F24C 15/10** (2006.01); **H05K 7/20** (2006.01)

CPC (source: EP)

H05B 6/1263 (2013.01); **F24C 15/101** (2013.01)

Citation (search report)

- [XYI] JP 2008192443 A 20080821 - TOKYO ELECTRIC POWER CO, et al
- [XYI] KR 101819370 B1 20180116 - LG ELECTRONICS INC [KR]
- [XYI] JP 5210967 B2 20130612
- [XYI] JP S5986834 A 19840519 - MATSUSHITA ELECTRIC IND CO LTD
- [Y] JP 2012033513 A 20120216 - MITSUBISHI ELECTRIC CORP
- [Y] WO 2019004983 A2 20190103 - MAMUR TEKNOLOJI SISTEMLERI SANAYI ANONIM SIRKETI [TR]
- See references of WO 2021112776A1

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 2021112776 A1 20210610; EP 4035503 A1 20220803; EP 4035503 A4 20230607

DOCDB simple family (application)

TR 2019050966 W 20191118; EP 19955192 A 20191118