

Title (en)

RADIATION DEVICE, HEATING DEVICE, METHOD FOR MANUFACTURING A HEATING DEVICE, AND USE OF A RADIATION DEVICE

Title (de)

STRAHLUNGSVORRICHTUNG, HEIZVORRICHTUNG, VERFAHREN ZUR HERSTELLUNG EINER HEIZVORRICHTUNG UND VERWENDUNG EINER STRAHLUNGSVORRICHTUNG

Title (fr)

DISPOSITIF DE CHAUFFAGE, DISPOSITIF DE RAYONNEMENT, PROCÉDÉ DE FABRICATION D'UN DISPOSITIF DE CHAUFFAGE ET UTILISATION D'UN DISPOSITIF D'AFFICHAGE

Publication

**EP 4033862 A1 20220727 (EN)**

Application

**EP 21152429 A 20210120**

Priority

EP 21152429 A 20210120

Abstract (en)

The underlying invention is in particular directed to a radiation device (8) configured for dielectrically heating, in particular cooking, of one or more objects (37), such as foodstuff, with high frequency radiation (9) in the radio frequency range, and/or microwave frequency range in a cavity (7) of a heating appliance (35), in particular a cooking appliance (35), comprising:- at least one solid state power amplifier module (4) with at least one input port (11) and at least one output port (12), the solid state amplifier module (4) configured for amplifying radio frequency and/or microwave frequency signals received at the input port (11), and for outputting the amplified radio frequency and/or microwave signals at the output port (12); and- at least one antenna (6) coupled to the output port (12) of the solid state amplifier module (4) and at least configured for radiating radio frequency or microwave frequency radiation (9) based on the signals from the output port (12) of the solid state amplifier module (4), the at least one solid state power amplifier module (4) and the at least one antenna (6) being integrated on a common printed circuit board layout (13).

IPC 8 full level

**H05B 6/68** (2006.01)

CPC (source: EP)

**H05B 6/686** (2013.01)

Citation (applicant)

- EP 3035773 A1 20160622 - E G O ELEKTRO GERÄTEBAU GMBH [DE]
- US 5558880 A 19960924 - GOLE DILIP J [US], et al
- US 2017251530 A1 20170831 - DORE GIOVANNI [IT], et al

Citation (search report)

- [X] WO 2015028839 A1 20150305 - FREESCALE SEMICONDUCTOR INC [US], et al
- [A] WO 2014147384 A1 20140925 - WAYV TECHNOLOGIES LTD [GB]
- [X] EP 3657907 A1 20200527 - AMPLEON NETHERLANDS BV [NL]

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)

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