

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 B1 20231227 (EN)

Application

EP 21152429 A 20210120

Priority

EP 21152429 A 20210120

Abstract (en)

[origin: EP4033862A1] 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)

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)

EP 4033862 A1 20220727; EP 4033862 B1 20231227

DOCDB simple family (application)

EP 21152429 A 20210120