

Title (en)
DOMESTIC APPLIANCE DEVICE

Title (de)
HAUSHALTSGERÄTEVORRICHTUNG

Title (fr)
APPAREIL ÉLECTROMÉNAGER

Publication
EP 3556180 B1 20201104 (DE)

Application
EP 17822459 A 20171212

Priority
• ES 201631615 A 20161219
• IB 2017057812 W 20171212

Abstract (en)
[origin: WO2018116053A1] The invention relates to a domestic appliance device comprising at least one inverter unit with a half-bridge circuit or full-bridge circuit design for operating multiple inductors by means of a multiplexer. In order to increase the efficiency of the domestic appliance device, the invention provides a domestic appliance device, more particularly a cooking device comprising: at least one number N of row switching elements (10a-q); at least one number M of column switching elements (12a-q); at least one heating matrix (14a-q) having at least one number NxM of heating matrix elements (16a-q), wherein for any i of 1 to N and any j of 1 to M, with a total number N+M of row switching elements (10a-q) and column switching elements (12a-q) that is greater than 2, the i, j-th heating matrix element (16a-q) comprises at least one i, j-th inductor (18a-q) and is connected both to the i-th row switching element (10a-q) and to the j-th column switching element (12a-q); and at least one switching diode (34a-q, 36a-q) that connects at least one of the row switching elements (10a-q) or at least one of the column switching elements (12a-q) to at least one reference potential (30a-q, 32a-q).

IPC 8 full level
H05B 6/06 (2006.01)

CPC (source: EP ES US)
H05B 1/0202 (2013.01 - US); **H05B 6/062** (2013.01 - EP US); **H05B 6/065** (2013.01 - ES US); **H05B 2213/03** (2013.01 - EP US); **H05B 2213/05** (2013.01 - US)

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 2018116053 A1 20180628; CN 110063090 A 20190726; CN 110063090 B 20210608; EP 3556180 A1 20191023; EP 3556180 B1 20201104; ES 2673131 A1 20180619; ES 2673131 B1 20190328; US 11153940 B2 20211019; US 2019274190 A1 20190905

DOCDB simple family (application)
IB 2017057812 W 20171212; CN 201780078383 A 20171212; EP 17822459 A 20171212; ES 201631615 A 20161219; US 201716334030 A 20171212