

Title (en)
HEATING DEVICE WITH A FLAT HEATING ELEMENT, COOKING APPLIANCE WITH AND METHOD FOR MANUFACTURING SUCH A HEATING DEVICE

Title (de)
HEIZEINRICHTUNG MIT EINEM FLÄCHIGEN HEIZELEMENT, KOCHGERÄT MIT UND VERFAHREN ZUR HERSTELLUNG EINER SOLCHEN HEIZEINRICHTUNG

Title (fr)
DISPOSITIF CHAUFFANT DOTÉ D'UN ÉLÉMENT CHAUFFANT PLAN, APPAREIL DE CUISSON ET PROCÉDÉ DE FABRICATION D'UN TEL DISPOSITIF CHAUFFANT

Publication
EP 3749053 A1 20201209 (DE)

Application
EP 20173120 A 20200506

Priority
DE 102019208228 A 20190605

Abstract (en)
[origin: JP2020202176A] To provide a heating device that can maintain the design, is easily assembled, and has a cost-effective heating element. SOLUTION: A heating element 12 includes fibers 13a and 13b of a heat conductive material made of silicon carbide. In an upper region of the heating element 12, the fibers 13a and 13b are arranged to extend in parallel as individual fibers or as yarns formed by spinning or twisting the fibers. Further, the fibers 13a and 13b extend between a left side connecting contact 18a and a right side connecting contact 18b over a shortest path. SELECTED DRAWING: Figure 1

Abstract (de)
Eine Heizeinrichtung, wie sie vorteilhaft in einem Kochfeld eingebaut sein kann, weist ein flächiges Heizelement und eine Halteeinrichtung für das Heizelement auf. Das Heizelement weist Fasern zum Betrieb als Widerstandsheizler auf, wobei die Fasern einen Durchmesser von weniger als 50 µm aufweisen und aus SiC als Heizleitermaterial bestehen.

IPC 8 full level
H05B 3/14 (2006.01); **H05B 3/06** (2006.01); **H05B 3/34** (2006.01); **H05B 3/48** (2006.01); **H05B 3/68** (2006.01)

CPC (source: EP)
H05B 3/06 (2013.01); **H05B 3/148** (2013.01); **H05B 3/34** (2013.01); **H05B 3/48** (2013.01); **H05B 3/68** (2013.01); **H05B 2203/005** (2013.01); **H05B 2203/015** (2013.01)

Citation (applicant)
• DE 10004177 A1 20010802 - EGO ELEKTRO GERAETEBAU GMBH [DE]
• DE 102004024044 A1 20051124 - EGO ELEKTRO GERAETEBAU GMBH [DE]
• DE 102016225462 A1 20180621 - EGO ELEKTRO GERAETEBAU GMBH [DE]

Citation (search report)
• [XY] US 2003155347 A1 20030821 - OH TAE-SUNG [KR], et al
• [XY] KR 101971220 B1 20190422 - KOREA INST CERAMIC ENG & TECH [KR]
• [XY] KR 20180113898 A 20181017 - DAEHO I&T CO LTD [KR]
• [YA] WO 2014106960 A1 20140710 - SMARTRONIX CO LTD [KR], et al
• [YA] WO 2009135487 A2 20091112 - TOLMACHEVA ELENA [DE], et al
• [AD] DE 102016225462 A1 20180621 - EGO ELEKTRO GERAETEBAU GMBH [DE]

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

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EP 3749053 A1 20201209; DE 102019208228 A1 20201210; JP 2020202176 A 20201217

DOCDB simple family (application)
EP 20173120 A 20200506; DE 102019208228 A 20190605; JP 2020091984 A 20200527