

Title (en)

THERMOELECTRIC ASSEMBLY FOR POWERING A PLURALITY OF ELECTROMAGNETIC VALVES OF A COOKING APPLIANCE

Title (de)

THERMOELEKTRISCHE ANORDNUNG ZUR SPEISUNG EINER VIELZAHL VON ELEKTROMAGNETISCHEN VENTILEN EINES KOCHGERÄTES

Title (fr)

ENSEMBLE THERMOÉLECTRIQUE POUR ALIMENTER UNE PLURALITÉ DE SOUPAPES ÉLECTROMAGNÉTIQUES D'UN APPAREIL DE CUISSON

Publication

EP 3839346 A1 20210623 (EN)

Application

EP 19383143 A 20191219

Priority

EP 19383143 A 20191219

Abstract (en)

A thermoelectric assembly comprising a main current circuit (1) and at least one additional current circuit (1'), each associated with a respective electromagnetic valve (6, 6'), each current circuit (1, 1') comprising a thermocouple (2, 2'), a cable (3, 3') configured for connecting the thermocouple (2, 2') with the corresponding electromagnetic valve (6, 6'), and a transistor (9, 9') connected to the cable (3, 3') and configured for de-energizing the electromagnetic valve (6, 6') when said transistor (9, 9') is not powered. Each current circuit (1, 1') comprises a connection module (20, 20') housing the respective transistor (9, 9'). The main current circuit (1) further comprises a power supply (10), the connection modules (20, 20') being configured for being connected to one another such that the power supply (10) does not only power the transistor (9) of the main current circuit (1), but also the transistor (9') of the respective additional current circuit (1').

IPC 8 full level

F23N 5/10 (2006.01); **F24C 3/12** (2006.01)

CPC (source: EP)

F23N 5/102 (2013.01); **F24C 3/126** (2013.01); **F23N 2237/02** (2020.01); **F23N 2241/08** (2020.01)

Citation (applicant)

- EP 0288390 A1 19881026 - CHAFFOTEAUX ET MAURY [FR]
- US 2019195507 A1 20190627 - FUMAGALLI IVAN [IT], et al

Citation (search report)

- [YA] US 2019078781 A1 20190314 - MORO MARCO [IT], et al
- [YA] JP 2015209981 A 20151124 - NORITZ CORP
- [A] DE 2306544 A1 19740815 - DIEHL FA

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)

EP 3839346 A1 20210623

DOCDB simple family (application)

EP 19383143 A 20191219