

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 VANNES ÉLECTROMAGNÉTIQUES D'UN APPAREIL DE CUISSON

Publication

**EP 3839352 A1 20210623 (EN)**

Application

**EP 19383142 A 20191219**

Priority

EP 19383142 A 20191219

Abstract (en)

Thermoelectric assembly for powering a plurality of electromagnetic valves of a cooking appliance, comprising a main current circuit comprising a thermocouple, a cable configured for electrically connecting said thermocouple with the corresponding electromagnetic valve, and a transistor (9) connected to the cable and configured for de-energizing the electromagnetic valve. The main current circuit comprises a connection module (20) comprising a power supply (10) connected to the transistor (9), the power supply (10) comprising input terminals (22, 23) configured for being connected to an external energy source, a rectifier (11), and a resistive block (14) connected between one of the input terminals (22, 23) and the rectifier (11), the resistive block (14) being configured for minimizing the current circulating through the power supply (10) to a value equivalent to the galvanic isolation.

IPC 8 full level

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

CPC (source: BR EP)

**F23N 5/102** (2013.01 - BR EP); **F24C 3/126** (2013.01 - EP)

Citation (applicant)

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

Citation (search report)

- [Y] US 2019078781 A1 20190314 - MORO MARCO [IT], et al
- [Y] DE 2306544 A1 19740815 - DIEHL FA
- [A] DE 2123458 A1 19721123
- [A] GB 1524056 A 19780906 - PHILIPS NV

Designated contracting state (EPC)

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