

Title (en)

RESISTIVE HEATER WITH TEMPERATURE SENSING POWER PINS AND AUXILIARY SENSING JUNCTION

Title (de)

WIDERSTANDSHEIZUNG MIT TEMPERATURMESSSENDEN STROMSTIFTEN UND HILFSMESSVERBINDUNG

Title (fr)

DISPOSITIF DE CHAUFFAGE RÉSISTIF AVEC BROCHES D'ALIMENTATION À DÉTECTION DE TEMPÉRATURE ET JONCTION DE DÉTECTION AUXILIAIRE

Publication

**EP 3777476 A1 20210217 (EN)**

Application

**EP 19717663 A 20190401**

Priority

- US 201815950358 A 20180411
- US 2019025106 W 20190401

Abstract (en)

[origin: WO2019199506A1] The present disclosure is directed toward a heater that includes a resistive heating element, a first power pin, and a second power pin. The first power pin forms a first junction with a first end of the resistive heating element, and the second power pin forms a second junction with the second end of the resistive heating element. The second power pin includes a first lead wire and a second lead wire. The first lead wire forms the second junction with the second end of the resistive heating element and defines a first conductive material. The second lead wire forms a primary sensing junction with the first lead wire at a first reference area, and defines a second conductive material different from the first conductive material to measure a temperature at the first reference area based on a voltage change created by the primary sensing junction.

IPC 8 full level

**H05B 3/40** (2006.01); **G01K 7/02** (2021.01)

CPC (source: EP KR)

**G01K 7/02** (2013.01 - EP KR); **H05B 1/0291** (2013.01 - EP KR); **H05B 3/06** (2013.01 - EP KR); **H05B 3/48** (2013.01 - EP KR); **H05B 2203/014** (2013.01 - EP KR)

Citation (search report)

See references of WO 2019199506A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2019199506 A1 20191017**; CN 112042265 A 20201204; CN 112042265 B 20230620; EP 3777476 A1 20210217; JP 2021521589 A 20210826; JP 7374922 B2 20231107; KR 20210007986 A 20210120; TW 201946491 A 20191201; TW I741278 B 20211001

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