

Title (en)
FLOW THROUGH HEATER AND METHOD OF MANUFACTURE THEREOF

Title (de)
DURCHFLUSSERHITZER UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)
DISPOSITIF DE CHAUFFAGE À ÉCOULEMENT CONTINU ET SON PROCÉDÉ DE FABRICATION

Publication
EP 4383940 A1 20240612 (EN)

Application
EP 23215025 A 20231207

Priority
GB 202218490 A 20221208

Abstract (en)
Flow through heater comprises an integral body including a plurality of flow channels and a thick film heater in thermal contact with the integral body, such that fluid flowing through the flow channels is heated by the thick film heater. The integral body may be formed of aluminium, for example by extrusion, or of ceramic. The thick film heater may comprise a substrate that is attached to the integral body, or may comprise one or more thick film tracks deposited directly on the integral body. Where the integral body is made of aluminium, the surface may be anodised to form an insulating layer on which the tracks may be deposited.

IPC 8 full level
H05B 3/06 (2006.01); **F24H 1/10** (2022.01); **H05B 3/26** (2006.01)

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F24H 1/121 (2013.01 - GB); **H05B 3/06** (2013.01 - EP); **H05B 3/26** (2013.01 - EP); **F24H 1/102** (2013.01 - EP); **H05B 2203/013** (2013.01 - EP); **H05B 2203/021** (2013.01 - EP)

Citation (applicant)
GB 2481265 A 20111221 - OTTER CONTROLS LTD [GB]

Citation (search report)

- [X] GB 2484321 A 20120411 - OTTER CONTROLS LTD [GB]
- [X] DE 4436013 A1 19960418 - KURZ WOLFGANG [DE], et al
- [I] US 4920868 A 19900501 - GEHRMANN ALFRED [DE]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
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