

Title (en)
ELECTRIC FLUID HEATER

Title (de)
ELEKTRISCHER FLUIDERHITZER

Title (fr)
DISPOSITIF DE CHAUFFAGE DE FLUIDE ÉLECTRIQUE

Publication
EP 4339528 A1 20240320 (EN)

Application
EP 22195491 A 20220914

Priority
EP 22195491 A 20220914

Abstract (en)
A fluid heater (100) includes a first end plate (104), a second end plate (108) and plurality of intermediate plates (112). The first end plate (104) includes an inlet (118) and an outlet (120) for ingress and egress of fluid into and out of the fluid heater (100) to cause the fluid to follow a U-turn trajectory. The intermediate plates (112) are arranged in pairs of plates (114, 116). Each pair (114, 116) includes a first intermediate plate (114) and a second intermediate plate (116). The first intermediate plate (114) being joined to the second intermediate plate (116) to form an interspace (136) therebetween to accommodate at least one heating module (138) without welding thereto. The adjacent intermediate plates (112) define fluid flow passes adjacent to the corresponding heating element (138) to permit heat exchange between the fluid and the at least one corresponding heating module (138).

IPC 8 full level
F24H 1/00 (2022.01); **B60H 1/22** (2006.01); **F24H 1/12** (2022.01); **F24H 9/00** (2022.01); **F24H 9/1818** (2022.01); **F28D 1/03** (2006.01)

CPC (source: EP)
F24H 1/009 (2013.01); **F24H 1/121** (2013.01); **F24H 9/0015** (2013.01); **F24H 9/1827** (2013.01); **F28D 1/0333** (2013.01)

Citation (search report)
• [X1] WO 2013087671 A1 20130620 - BEHR GMBH & CO KG [DE], et al
• [X1] US 2020079180 A1 20200312 - TSCHMERIS IGOR [DE], et al
• [X1] US 2014050465 A1 20140220 - KOMINAMI SATOSHI [JP], et al

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

Designated validation state (EPC)
KH MA MD TN

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