

Title (en)
AN ELECTRIC FLUID HEATER

Title (de)
ELEKTRISCHER FLÜSSIGKEITSERHITZER

Title (fr)
APPAREIL ÉLECTRIQUE DE CHAUFFAGE DE FLUIDE

Publication
EP 4311375 A1 20240124 (EN)

Application
EP 22185572 A 20220718

Priority
EP 22185572 A 20220718

Abstract (en)
An electrical fluid heater (100) includes a housing (10), heater coils (20), an inlet nozzle (12) and an outlet nozzle (14). The housing (10) is formed with a channel (10a). The heater coils (20) is received within the channel (10a) in spaced apart relation with respect to each other and with respect to inner walls (10b) of the channel (10a). The inlet nozzle (12) is for ingress of fluid inside the housing (10) surrounding the heater coils (20). The outlet (14) is for egress of heated fluid from the housing (10). The heater coils (20) include respective main portions arranged along respective parallel, planes and adjacent to each other with spacing between adjacent heater coils (20) being at least 3 mm.

IPC 8 full level
H05B 3/80 (2006.01); **F24H 1/20** (2022.01); **F24H 9/1818** (2022.01); **H05B 3/06** (2006.01)

CPC (source: EP)
F24H 1/121 (2013.01); **F24H 9/1818** (2013.01); **H05B 3/06** (2013.01); **H05B 3/80** (2013.01); **F24H 1/142** (2013.01); **H05B 2203/014** (2013.01); **H05B 2203/021** (2013.01)

Citation (search report)
• [XYI] US 5892888 A 19990406 - ROMERO FRANCIS [FR]
• [Y] DE 102018119041 A1 20200206 - WEBASTO SE [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 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

DOCDB simple family (publication)
EP 4311375 A1 20240124

DOCDB simple family (application)
EP 22185572 A 20220718