

Title (en)

KIT FOR A MODULAR RADIATOR FOR FLUID CIRCULATION AND MANUFACTURING METHOD THEREOF

Title (de)

KIT FÜR EINEN MODULAREN KÜHLER FÜR DIE FLÜSSIGKEITZIRKULATION UND HERSTELLUNGSVERFAHREN

Title (fr)

KIT POUR UN RADIATEUR MODULAIRE POUR LA CIRCULATION DE FLUIDE ET SON PROCÉDÉ DE FABRICATION

Publication

EP 3786568 A1 20210303 (EN)

Application

EP 19194802 A 20190830

Priority

PT 11578519 A 20190829

Abstract (en)

The present disclosure describes modular systems (together or a said kit) for the construction of elements which allow to radiate thermal energy through an internal water circuit or other equivalent fluid. In particular, a modular kit for fluid circulation and manufacturing method thereof is described. More particularly, the present disclosure describes a kit for a modular radiator for the circulation of fluids in additive manufacturing comprising: a plurality of Y-shaped forked parts with three ends connected by a fluid-tight channel, produced by additive manufacturing, wherein said parts are coupleable to one another by said ends; and a plurality of terminals for enclosing open ends of the modular radiator parts.

IPC 8 full level

F28F 9/26 (2006.01); **F28D 1/047** (2006.01); **F28D 21/00** (2006.01)

CPC (source: EP)

F28D 1/047 (2013.01); **F28F 9/262** (2013.01); **F28D 2021/0035** (2013.01); **F28F 2210/02** (2013.01); **F28F 2255/18** (2013.01); **F28F 2255/20** (2013.01)

Citation (applicant)

- US 2015341987 A1 20151126 - BERNSTEIN AL [DE]
- US 2004200830 A1 20041014 - HAMBURGER ANDREAS [DE], et al
- CN 202281295 U 20120620 - WEIJI YE
- CN 109104839 A 20181228 - XIE MENGXIU
- CN 109058990 A 20181221 - CHUZHOU PULIHUI TECH SERVICE CO LTD

Citation (search report)

- [Y] EP 2284453 A2 20110216 - ROOS FREIZEITANLAGEN GMBH [DE]
- [Y] US 2018297843 A1 20181018 - LO CHARLES [US], et al
- [A] EP 1031809 A1 20000830 - MACCHINE CURVATUBI CRIPPA AGOS [IT]
- [A] DE 9415857 U1 19951102 - BITSCH HANS ULLRICH PROF DIPL [DE], et al
- [A] EP 1085284 A2 20010321 - BALLARDINI CLAUDIO [IT]

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

DOCDB simple family (publication)

EP 3786568 A1 20210303

DOCDB simple family (application)

EP 19194802 A 20190830