

Title (en)
RADIATOR FOR COOLING A FLUID MADE FROM A CARBON FIBRE COMPOSITE

Title (de)
KÜHLER ZUM KÜHLEN EINES FLUIDS AUS EINEM KOHLENSTOFFFASER-VERBUNDSTOFF

Title (fr)
REFROIDISSEUR POUR REFROIDIR UN FLUIDE PROVENANT D'UN MATÉRIAU COMPOSITE RENFORCÉ PAR DES FIBRES DE CARBONE

Publication
EP 2047202 A1 20090415 (DE)

Application
EP 07801499 A 20070802

Priority
• EP 2007006854 W 20070802
• DE 202006012094 U 20060804

Abstract (en)
[origin: WO2008014998A1] The invention relates to a cooler or radiator (10) for cooling a fluid, wherein the radiator (10) includes a first header (12) with a first connection for the fluid to be supplied and a second header (14) with a second connection for the fluid to be discharged, wherein the first header (12) is connected to the second header (14) by fluid-carrying tubes (16), wherein the radiator is constructed in such a way that the fluid can flow through the radiator from the first connection via the tubes (16) to the second connection, wherein the tubes (16) consist of a carbon fibre composite containing carbon fibres and a bonder, and wherein the thermal conductivity of the carbon fibre composite is increased by exposed carbon fibres being present at a surface of the carbon fibre composite and/or by the carbon fibre composite containing carbon particles.

IPC 8 full level
F28F 21/02 (2006.01); **F28D 1/053** (2006.01); **F28F 1/02** (2006.01); **F28F 13/18** (2006.01)

CPC (source: EP)
F28D 1/05366 (2013.01); **F28F 1/025** (2013.01); **F28F 13/185** (2013.01); **F28F 21/02** (2013.01); **B29C 65/48** (2013.01); **B29C 65/483** (2013.01); **B29C 66/5224** (2013.01); **B29C 66/5432** (2013.01); **B29K 2063/00** (2013.01); **B29K 2077/00** (2013.01); **B29K 2307/00** (2013.01); **B29K 2309/08** (2013.01); **B29L 2031/18** (2013.01); **F28D 2021/0082** (2013.01); **F28D 2021/0094** (2013.01); **F28F 2225/00** (2013.01); **F28F 2275/025** (2013.01)

Citation (search report)
See references of WO 2008014998A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
DE 202006012094 U1 20071220; EP 2047202 A1 20090415; WO 2008014998 A1 20080207

DOCDB simple family (application)
DE 202006012094 U 20060804; EP 07801499 A 20070802; EP 2007006854 W 20070802