

Title (en)
HEAT EXCHANGER

Title (de)
WÄRMETAUSCHER

Title (fr)
ÉCHANGEUR THERMIQUE

Publication
EP 2802832 B1 20190508 (EN)

Application
EP 12822981 A 20121220

Priority
• GB 201200480 A 20120112
• GB 2012053199 W 20121220

Abstract (en)
[origin: GB2498373A] A heat exchanger for exchanging heat with a medium across a planar surface. The heat exchanger comprises a heat exchange panel 101 and a fluid circuit comprising a first chamber 104 disposed at a first end of the panel, a second chamber 105 disposed at a second end of the panel, and a plurality of passages 103 extending along the panel between the first and second chambers and is in thermal communication with the panel. A duct 107 extends between the first and second chambers, wherein a fluid 102 disposed within the circuit communicates through the passages from the first chamber to the second chamber, and the duct communicates the fluid from the second chamber to the first chamber. The passages extend within the panel. The duct is spaced from the panel thereby insulating the fluid in the passages from the fluid in the duct. The fluid may pass from the second chamber to the first chamber under gravity. One of the chambers may comprise a cooler for cooling the fluid. The heat exchanger functions as a heat pipe whereby the fluid evaporates in the passages and condenses in the second chamber and duct.

IPC 8 full level
F28D 15/02 (2006.01)

CPC (source: EP GB US)
F28D 15/025 (2013.01 - US); **F28D 15/0266** (2013.01 - EP GB US)

Citation (examination)
US 2003070792 A1 20030417 - TANAKA HIROSHI [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

DOCDB simple family (publication)
GB 201200480 D0 20120222; **GB 2498373 A 20130717**; **GB 2498373 B 20160831**; EP 2802832 A1 20141119; EP 2802832 B1 20190508; ES 2741474 T3 20200211; US 2015020999 A1 20150122; WO 2013104884 A1 20130718

DOCDB simple family (application)
GB 201200480 A 20120112; EP 12822981 A 20121220; ES 12822981 T 20121220; GB 2012053199 W 20121220; US 201214371024 A 20121220