

Title (en)
TEMPERATURE CONTROL DEVICE

Title (de)
TEMPERATURREGELUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE CONTRÔLE THERMIQUE

Publication
EP 2861928 A1 20150422 (FR)

Application
EP 13739684 A 20130718

Priority
• EP 2013065236 W 20130718
• FR 1202035 A 20120718

Abstract (en)
[origin: WO2014013035A1] The invention relates to a heat exchange and transfer device that consists of a closed cavity containing a biphasic fluid and includes: at least one heat exchange area comprising a flat chamber configured in the shape of a space, the size of which is significantly smaller than the other two, typically at least ten times smaller, said flat chamber having a first capillary structure on all or part of the inner surface thereof, enabling the fluid in the liquid form thereof to wet said first capillary structure, at least one heat transport area configured in the shape of at least one tube having a second capillary structure over all or part of the inner face thereof, said flat chamber and said at least one tube being connected such that the vapor can circulate freely in the entire cavity, and that capillarity continuity is ensured between the first and second capillary structures so that the liquid can wet the entire resulting capillary structure.

IPC 8 full level
F28D 15/02 (2006.01); **F28D 15/04** (2006.01)

CPC (source: EP)
F28D 15/0233 (2013.01); **F28D 15/0241** (2013.01); **F28D 15/0266** (2013.01); **F28D 15/0275** (2013.01); **F28D 15/043** (2013.01); **F28D 15/046** (2013.01)

Citation (search report)
See references of WO 2014013035A1

Cited by
WO2023020682A1

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)
WO 2014013035 A1 20140123; EP 2861928 A1 20150422; EP 2861928 B1 20171206; EP 2861928 B8 20180117; ES 2659748 T3 20180319; FR 2993649 A1 20140124; FR 2993649 B1 20140808

DOCDB simple family (application)
EP 2013065236 W 20130718; EP 13739684 A 20130718; ES 13739684 T 20130718; FR 1202035 A 20120718