

Title (en)

DIPHASIC COOLING LOOP WITH SATELLITE EVAPORATORS

Title (de)

ZWEIPHASIGE KÜHLSCHLEIFE MIT SATELLITENVERDAMPFERN

Title (fr)

BOUCLE DIPHASIQUE DE REFROIDISSEMENT A EVAPORATEURS SATELLITES

Publication

**EP 3250870 A1 20171206 (FR)**

Application

**EP 15766100 A 20150911**

Priority

- FR 1550591 A 20150127
- EP 2015070883 W 20150911

Abstract (en)

[origin: WO2016119921A1] Heat-transfer system (10) comprising a main circuit (1) as a fluid loop, the main circuit having no mechanical or capillary pumping means, at least one evaporator assembly (2) arranged as a tapping off the main circuit with an inlet pipe (21) tapping liquid fluid from the main loop, an evaporator (4) including a porous capillary pumping element coupled to a hot source that is to be cooled, an outlet pipe (22) having an ejection nozzle that injects the fluid chiefly in the vapour phase into the main circuit at least in the loop circulation direction, at least one cooling exchanger (5; 5') comprising a portion of the main loop circuit and a heat exchanger coupled to a cold source, for removing heat energy.

IPC 8 full level

**F28D 15/02** (2006.01); **F28D 15/04** (2006.01)

CPC (source: CN EP US)

**F28D 15/025** (2013.01 - US); **F28D 15/0266** (2013.01 - CN EP US); **F28D 15/04** (2013.01 - US); **F28D 15/043** (2013.01 - CN EP US); **F28D 2015/0216** (2013.01 - US)

Citation (search report)

See references of WO 2016119921A1

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)

**FR 3032027 A1 20160729**; **FR 3032027 B1 20170113**; CN 107208980 A 20170926; CN 107208980 B 20190412; EP 3250870 A1 20171206; EP 3250870 B1 20181010; ES 2699092 T3 20190207; JP 2018503053 A 20180201; JP 6578361 B2 20190918; US 10352623 B2 20190716; US 2018023900 A1 20180125; WO 2016119921 A1 20160804

DOCDB simple family (application)

**FR 1550591 A 20150127**; CN 201580073254 A 20150911; EP 15766100 A 20150911; EP 2015070883 W 20150911; ES 15766100 T 20150911; JP 2017536554 A 20150911; US 201515546618 A 20150911