

Title (en)
EVAPORATOR WITH NON-RETURN DEVICE FOR DIPHASIC LOOP

Title (de)
VERDAMPFER MIT RÜCKSCHLAGVORRICHTUNG FÜR ZWEIPHASIGEN KREISLAUF

Title (fr)
EVAPORATEUR À DISPOSITIF ANTI-RETOUR POUR BOUCLE DIPHASIQUE

Publication
EP 3027995 B1 20181017 (FR)

Application
EP 14747908 A 20140731

Priority
• FR 1357682 A 20130801
• EP 2014066468 W 20140731

Abstract (en)
[origin: WO2015014926A1] The invention relates to an evaporator (10) for a diphasic heat transfer system with capillary pumping, comprising a base plate (1) intended to receive calories from a dissipative element, a body (2) with a bottom (21), side walls (9a-9d) and a border attached to the base plate (1), a porous mass (3) forming a layer with a capillary structure, which defines a first gas chamber (11) delimited by the base plate (1), the side walls (9a-9b) and said porous mass layer (3) and a second liquid chamber (12) delimited by the bottom (21), the side walls (9a-9b) and said porous mass layer (3), the second chamber (12) comprising an evaporator inlet orifice (5) for a tubular liquid line (50), comprising a check valve device (6) arranged in the second chamber (12) at the inlet orifice (5) to avoid back-flow of the liquid through the inlet orifice (5).

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

CPC (source: EP)
F28D 15/0266 (2013.01); **F28D 15/043** (2013.01)

Citation (examination)
FR 2979981 A1 20130315 - EURO HEAT PIPES [BE]

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)
WO 2015014926 A1 20150205; EP 3027995 A1 20160608; EP 3027995 B1 20181017; FR 3009377 A1 20150206; FR 3009377 B1 20181019

DOCDB simple family (application)
EP 2014066468 W 20140731; EP 14747908 A 20140731; FR 1357682 A 20130801