

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  
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Application  
**EP 14747908 A 20140731**

Priority  
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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).

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