

Title (en)

EVAPORATOR FOR A HEAT TRANSFER SYSTEM

Title (de)

VERDAMPFER FÜR EIN WÄRMEÜBERTRAGUNGSSYSTEM

Title (fr)

EVAPORATEUR POUR SYSTEME DE TRANSFERT THERMIQUE

Publication

EP 1549897 B1 20090107 (EN)

Application

EP 03799379 A 20031002

Priority

- US 0331110 W 20031002
- US 41542402 P 20021002
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Abstract (en)

[origin: WO2004031675A1] The evaporator (1000) includes a heated wall (1005), a liquid barrier wall (1010) containing working fluid, a primary wick (1015) positioned between the heated wall (1005) and the inner side of the liquid barrier wall (1010), a vapor removal channel (1020) located at an interface between the primary wick (1015) and the heated wall (1005), and a liquid flow channel (1025) located between the liquid barrier wall (1010) and the primary wick (1015). The working fluid flows only along the inner side of the liquid barrier wall (1010) . The vapor removal channels (1020) extend to the vapor outlet and the liquid flow channel (1025) receives liquid from the liquid inlet.

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