

Title (en)
INTEGRATED HEAT PIPE AND ITS METHOD OF HEAT EXCHANGE

Title (de)
INTEGRIERTES WÄRMEROHR UND SEIN WÄRMEAUSTAUSCHVERFAHREN

Title (fr)
CALODUC INTEGRE ET PROCEDE D'ECHANGE DE CHALEUR

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Abstract (en)
[origin: EP1475595A1] The present invention relates to a kind of integrated heat pipe and a method of heat exchange. The heat pipe includes a tank (1-2) as a heating portion and a lot of heat carriers (1-4) as a radiating portion. The tank (1-2) and the heat carriers (1-4) have same cavity in which a coolant (1-3) is partially filled. The tank (1-2) is held in close contact with a heat source (such as electronic elements). The heat carriers (1-4) are arranged at an interval so that the radiating channels (1-4a) are formed between them. The coolant (1-3) in the tank (1-2) is heated by the heat sources, vaporized coolant moves to the heat carriers (1-4) and condenses in there. According to the invention, the heat pipe can be increased its radiating surface significantly with the varied arrangement of the heat carriers (1-4). <IMAGE>

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