

Title (en)

SYSTEM AND METHOD FOR COOLING USING TWO SEPARATE COOLANTS

Title (de)

SYSTEM UND VERFAHREN ZUR KÜHLUNG ANHAND ZWEIER SEPARATER KÜHLMITTEL

Title (fr)

SYSTÈME ET PROCÉDÉ DE REFROIDISSEMENT METTANT EN OEUVRE DEUX RÉFRIGÉRANTS SÉPARÉS

Publication

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Application

EP 08843105 A 20080828

Priority

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- US 87630107 A 20071022

Abstract (en)

[origin: US2009101311A1] According to one embodiment, a cooling system for a heat-generating structure includes a first cooling loop that directs a flow of a first fluid coolant from a heat-generating structure to a first heat exchanger. The system also includes a second cooling loop that directs a flow of a second fluid coolant from the first heat exchanger to a second heat exchanger. The first heat exchanger receives thermal energy from the first fluid coolant and transfers at least a portion of the thermal energy to the second fluid coolant. The first fluid coolant has a specific heat and a mass flow rate, and the second fluid coolant has a specific heat and a mass flow rate. A product of the specific heat and the mass flow rate of the first fluid coolant is greater than a product of the specific heat and the mass flow rate of the second fluid coolant.

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