

Title (en)

Method and apparatus for controlling cooling with coolant at a subambient pressure

Title (de)

Verfahren und Vorrichtung zum Kühlen mit einem Kühlmittel mit einem Druck unterhalb des Umgebungsdrucks

Title (fr)

Procédé et dispositif pour refroidir avec un fluide réfrigérant à pression sous-ambiante

Publication

EP 1601043 A3 20061011 (EN)

Application

EP 05253020 A 20050517

Priority

US 85303804 A 20040525

Abstract (en)

[origin: EP1601043A2] According to one embodiment of the invention a method for controlling cooling of a heat-generating structure disposed in an environment having an ambient pressure includes providing a fluid coolant and reducing the pressure of the coolant to a subambient pressure at which the coolant has a boiling temperature less than a temperature of the heat-generating structure. The method further includes boiling and vaporizing coolant to absorb heat from the heat-generating structure by bringing the coolant into thermal communication with the heat generating structure. The method also includes measuring a parameter indicative of a pressure of the coolant and adjusting the pressure of the coolant in response to control the cooling of the heat-generating structure. To be accompanied, when published, by Figure 1 of the drawings.

IPC 8 full level

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Citation (search report)

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