

Title (en)

Controlled nucleate boiling sensor

Title (de)

Gesteuerter Nucleat-Siedepunktsensor

Title (fr)

Capteur d'ébullition de nucléation contrôlée

Publication

EP 2177733 A1 20100421 (EN)

Application

EP 08166816 A 20081016

Priority

EP 08166816 A 20081016

Abstract (en)

A nucleate boiling sensor arrangement for liquid cooling systems, comprising a sensor positioned in a support structure and at least one nucleation cavity, said nucleation cavity having a zone of bubble formation, a portion of the sensor positioned at the zone of bubble formation so as to detect initiation of a nucleate boiling state. A method of measuring a nucleate boiling temperature of a surface having at least one nucleation cavity in liquid cooling systems, comprising the steps of positioning a portion of a sensor at a zone of bubble formation of at least one cavity and monitoring a temperature at said zone of bubble formation to detect initiation of nucleate boiling state.

IPC 8 full level

F01P 11/16 (2006.01)

CPC (source: EP)

F01P 11/16 (2013.01)

Citation (search report)

- [A] JP H02115755 A 19900427 - TOSHIBA CORP
- [A] WO 03038251 A1 20030508 - BOSCH GMBH ROBERT [DE], et al
- [A] US 2002049015 A1 20020425 - SUZUKI AKITAKA [JP], et al
- [A] DE 4113294 C1 19920617

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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