

Title (en)
SYSTEM AND METHOD FOR A TEMPERATURE SENSOR USING TEMPERATURE BALANCE

Title (de)
SYSTEM UND VERFAHREN FÜR EINEN TEMPERATURSENSOR MIT TEMPERATURAUSGLEICH

Title (fr)
SYSTÈME ET PROCÉDÉ POUR UN DÉTECTEUR DE TEMPÉRATURE UTILISANT UN ÉQUILIBRE DE TEMPÉRATURE

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EP 2307865 A1 20110413 (EN)

Application
EP 09790079 A 20090706

Priority
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• GB 0813994 A 20080731

Abstract (en)
[origin: GB2462293A] A temperature sensing device 10 includes a probe 5 in contact with the body under test 6. The device 10 prevents heat transfer to or from the body under test 6 by delivering heat energy to or from the probe 5 using a thermal energy supply. The thermal energy supply can take the form of a heating/cooling source 3. The temperature sensing device 10 also includes a heat flux sensor 4. A temperature difference between the probe 5 and the heating/cooling source 3 drives a heat flux through the heat flux sensor 4, which generates a signal that passes through a feedback control circuit 2 which drives/controls the heating/cooling source 3 in response thereto. The temperature of the heating/cooling source 3 is measured via a thermometer element 7 and displayed on a thermometer display 1. Once the heat flux is zero, an indicator 8 is activated to indicate the temperature of the body under test 6 has been reached, the temperature being displayed on the thermometer display 1. A method for determining the temperature of a body under test is also disclosed.

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CPC (source: EP GB)
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