

Title (en)
METHOD AND APPARATUS FOR MEASURING TEMPERATURE

Title (de)
VERFAHREN UND VORRICHTUNG ZUR TEMPERATURMESSUNG

Title (fr)
PROCEDE ET APPAREIL DE MESURE DE LA TEMPERATURE

Publication
EP 1456614 A4 20050209 (EN)

Application
EP 02788479 A 20021114

Priority
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• US 33140801 P 20011115

Abstract (en)
[origin: WO03048704A1] Determining the temperature of the water by measuring the absorption coefficient of water (32). The method for determining temperature of a first substance comprising: acquiring a measurement of the absorption coefficient of the first substance at least one wavelength(30); and determining the temperature using the measurement of the absorption coefficient and known values of the absorption coefficient as a function of temperature at the at least one wavelength.

IPC 1-7
G01J 3/28; G01K 11/18; G01K 11/12

IPC 8 full level
G01N 21/00 (2006.01); **G01J 5/58** (2006.01); **G01J 5/60** (2006.01); **G01N 21/35** (2014.01); **G01N 21/3577** (2014.01); **G01N 21/359** (2014.01)

CPC (source: EP)
G01J 5/602 (2013.01)

Citation (search report)
• [X] US 6168311 B1 20010102 - XIAO GUOQING [US], et al
• [X] WO 9919700 A1 19990422 - C I SYSTEMS LTD [IL], et al
• [A] US 4973853 A 19901127 - LEONARD DONALD A [US], et al
• See references of WO 03048704A1

Citation (examination)
HOLLIS V.S. ET AL: "Non-invasive monitoring of brain tissue temperature by near-infrared spectroscopy", PROCEEDINGS OF THE SPIE, OPTICAL TOMOGRAPHY AND SPECTROSCOPY OF TISSUE IV, 21 January 2001 (2001-01-21), SAN JOSE, CA, USA, pages 470 - 481

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