

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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