

Title (en)

METHOD FOR TEMPERATURE MEASUREMENT IN A MICROFLUID CHANNEL OF A MICROFLUID DEVICE

Title (de)

VERFAHREN ZUR TEMPERATURMESSUNG IN EINEM MIKROFLUIDIK KANAL EINER MIKROFLUIDIKVORRICHTUNG

Title (fr)

PROCEDE DE MESURE DE TEMPERATURE DANS UN CANAL MICROFLUIDIQUE DE DISPOSITIF MICROFLUIDIQUE

Publication

EP 1856495 A1 20071121 (DE)

Application

EP 06706752 A 20060208

Priority

- EP 2006001112 W 20060208
- DE 102005007872 A 20050221

Abstract (en)

[origin: DE102005007872B3] Temperature measurement in microfluidic channel of microfluidic device comprises irradiating volume element of the channel by pulsed laser (15) that has mirrors and lenses (30), which is an integral component of the device. The fluidic device also has reflected surfaces and the scattered light is detected by a photo multiplier, photodiode of charge coupled device/CMOS photodetector and surface strengthened by metal colloids. The temperature is calculated by the shape of the Stokes and intensity of the Anti-Stokes lines of the Raman signals. An independent claim is also included for a microfluidic device.

IPC 8 full level

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CPC (source: EP US)

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