Title (en)
METHOD OF CONTROLLING TEMPERATURE

Title (de)
VERFAHREN ZUR TEMPERATURREGELUNG

Title (fr)
PROCÉDÉ DE RÉGULATION DE TEMPÉRATURE

Publication
EP 2142918 A4 20100602 (EN)

Application
EP 08744536 A 20080328

Priority
• US 2008058566 W 20080328
• US 92081507 P 20070330

Abstract (en)
[origin: WO2008121761A1] To suppress temperature variations of sample fluids within flow channels for electrophoresis, in a method for controlling temperatures within micro flow channels. When controlling the temperatures of sample fluids within micro flow channels of electrophoresis chips, in which flow channels through which electrophoresis occurs by application of electrical potential differences can be switched, temperature variations of the sample fluids within the micro flow channels, caused by differences in heat generated by the sample fluids prior to and following the switching of the flow channels, are predicted. Control properties for temperature control in order to cancel the temperature variations are changed during the switching of the flow channels.

IPC 8 full level
G01N 27/26 (2006.01); **G01N 27/447** (2006.01); B01L 3/00 (2006.01)

CPC (source: EP)
G01N 27/44708 (2013.01)

Citation (search report)
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• [Y] US 4908112 A 19900313 - PACE SALVATORE J [US]
• [Y] US 2007026421 A1 20070201 - SUNDBERG STEVEN A [US], et al
• [Y] WO 03006161 A2 20030123 - LI DONGQING [CA], et al
• [Y] WO 2006052682 A2 20060518 - APPLERA CORP [US], et al
• [A] SWINNEY K; BORNHOP D J: "Quantification and evaluation of Joule heating in on-chip capillary electrophoresis", ELECTROPHORESIS, vol. 23, no. 4, 23 February 2002 (2002-02-23), WILEY-VCH Verlag GmbH & Co, pages 613 - 620, XP002578634
• See references of WO 2008121761A1

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

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