



(11) **EP 3 483 599 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 30

(51) Int Cl.:
G01N 27/49 (2006.01) **G01N 33/487** (2006.01)
C12Q 1/00 (2006.01) **A61B 5/00** (2006.01)
A61B 5/145 (2006.01) **A61B 5/1486** (2006.01)
C12Q 1/26 (2006.01) **G01N 27/327** (2006.01)

(48) Corrigendum issued on:
31.07.2019 Bulletin 2019/31

(43) Date of publication:
15.05.2019 Bulletin 2019/20

(21) Application number: **18207840.2**

(22) Date of filing: **19.07.2006**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI
SK TR
Designated Extension States:
BA

(30) Priority: **20.07.2005 US 70078705 P**
08.05.2006 US 74677106 P

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
06787842.1 / 1 913 374

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Remarks:

This application was filed on 22.11.2018 as a divisional application to the application mentioned under INID code 62.

(54) **METHODS FOR MEASURING THE CONCENTRATION OF AN ANALYTE IN SOLUTION AND FOR CALIBRATING THE MEASUREMENT AS WELL AS HANDHELD DEVICES THEREFOR**

(57) A sensor system, device, and methods for determining the concentration of an analyte in a sample is described. Gated amperometric pulse sequences including multiple duty cycles of sequential excitations and relaxations may provide a shorter analysis time and/or improve the accuracy and/or precision of the analysis. The disclosed gated amperometric pulse sequences may re-

duce analysis errors arising from the hematocrit effect, variance in cap-gap volumes, non-steady-state conditions, mediator background, under-fill, temperature changes in the sample, and a single set of calibration constants.

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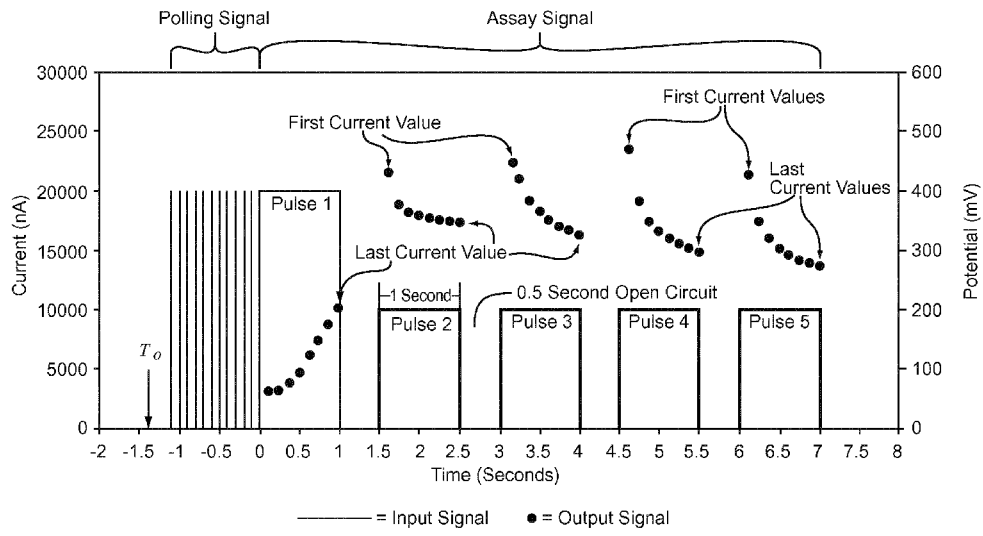


Fig.6D

专利名称(译)	用于测量溶液中的分析物浓度和用于校准测量的方法以及用于其的手持设备		
公开(公告)号	EP3483599A8	公开(公告)日	2019-07-31
申请号	EP2018207840	申请日	2006-07-19
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IPC分类号	G01N27/49 G01N33/487 C12Q1/00 A61B5/00 A61B5/145 A61B5/1486 C12Q1/26 G01N27/327		
CPC分类号	A61B5/14532 A61B5/14546 A61B5/1486 A61B2562/0295 C12Q1/006 C12Q1/26 G01N27/3273 G01N27/26		
代理机构(译)	COHAUSZ & FLORACK		
优先权	PCT/US2006/028013 2006-07-19 WO 60/700787 2005-07-20 US 60/746771 2006-05-08 US		
其他公开文献	EP3483599A1		
外部链接	Espacenet		

摘要(译)

描述了用于确定样品中分析物浓度的传感器系统，装置和方法。包括顺序激发和弛豫的多个工作循环的门控安培计脉冲序列可以提供更短的分析时间和/或提高分析的准确度和/或精度。所公开的门控安培计脉冲序列可以减少由血细胞比容效应，帽隙体积的变化，非稳态条件，介体背景，底部填充，样品中的温度变化以及单组校准常数引起的分析误差。

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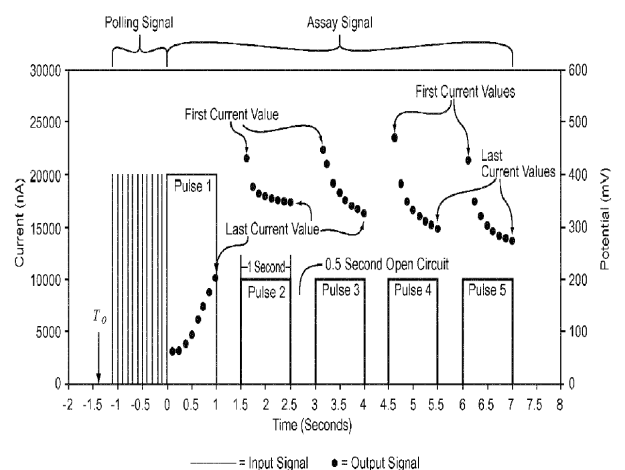


Fig. 6D