

Title (en)

METHOD AND DEVICE FOR CARRYING OUT A QPCR PROCESS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DURCHFÜHRUNG EINES QPCR-VERFAHRENS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE MISE EN OEUVRE D'UN PROCÉDÉ QPCR

Publication

EP 4110947 A1 20230104 (DE)

Application

EP 21706218 A 20210215

Priority

- DE 102020202360 A 20200225
- EP 2021053656 W 20210215

Abstract (en)

[origin: WO2021170441A1] The invention relates to a computer-implemented method for carrying out a quantitative polymerase chain reaction (qPCR) process, comprising the following steps: - cyclically carrying out (S1-S3) qPCR cycles; - measuring (S11) an intensity value of a fluorescence relating to each qPCR cycle to obtain a qPCR curve from intensity values; - analyzing (S12) the shape of the qPCR curve using a data-based classification model trained to provide a classification result depending on the shape of the qPCR curve (S13); and - carrying out (S14) the qPCR process depending on the classification result of the analysis of the shape of the qPCR curve.

IPC 8 full level

C12Q 1/6851 (2018.01); **G16B 25/20** (2019.01); **G16B 40/10** (2019.01)

CPC (source: EP US)

C12Q 1/6851 (2013.01 - EP US); **G16B 25/20** (2019.01 - EP); **G16B 40/10** (2019.01 - EP US); **G16B 40/20** (2019.01 - US); **G16H 40/20** (2017.12 - EP)

C-Set (source: EP)

C12Q 1/6851 + **C12Q 2537/165**

Citation (search report)

See references of WO 2021170441A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102020202360 A1 20210826; **DE 102020202360 B4 20240321**; CN 115103915 A 20220923; EP 4110947 A1 20230104; US 2023094386 A1 20230330; WO 2021170441 A1 20210902

DOCDB simple family (application)

DE 102020202360 A 20200225; CN 202180016607 A 20210215; EP 2021053656 W 20210215; EP 21706218 A 20210215; US 202117904301 A 20210215