

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)

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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)

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