

Title (en)

CARBOHYDRATE POLYMER-BASED SENSOR AND METHOD FOR DEVELOPING THIS SENSOR

Title (de)

SENSOR AUF KOHLENHYDRATPOLYMERBASIS UND VERFAHREN ZUR ENTWICKLUNG DIESES SENSORS

Title (fr)

CAPTEUR À BASE DE POLYMÈRE GLUCIDIQUE ET PROCÉDÉ DE DÉVELOPPEMENT DUDIT CAPTEUR

Publication

**EP 4062164 A4 20230125 (EN)**

Application

**EP 20906024 A 20201221**

Priority

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- TR 202002367 A 20200217
- TR 2020051340 W 20201221

Abstract (en)

[origin: WO2021133339A2] This invention is related to a method for developing a biopolymer-based sensor. Within the scope of this invention, preferably carbon electrodes are used as the sensor surface and in order to form a biocompatible surface, preferably a carbohydrate based biopolymer is used. By means of the modification of the sensor platform with the carbohydrate polymer, a biocompatible surface has been able to be obtained that can carry out precise analysis in a short period of time of nucleic acid, drug and nucleic acid-drugs interactions.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [I] CONGUR GULSAH ET AL: "Chitosan modified graphite electrodes developed for electrochemical monitoring of interaction between daunorubicin and DNA", SENSING AND BIO-SENSING RESEARCH, vol. 22, 1 February 2019 (2019-02-01), pages 100255, XP055875866, ISSN: 2214-1804, DOI: 10.1016/j.sbsr.2018.100255
- [A] ÖNER EBRU TOKSOY ET AL: "Review of Levan polysaccharide: From a century of past experiences to future prospects", BIOTECHNOLOGY ADVANCES, ELSEVIER PUBLISHING, BARKING, GB, vol. 34, no. 5, 10 May 2016 (2016-05-10), pages 827 - 844, XP029637381, ISSN: 0734-9750, DOI: 10.1016/J.BIOTECHADV.2016.05.002
- [A] TOMULESCU CATERINA ET AL: "LEVAN -A MINI REVIEW", SCIENTIFIC BULLETIN. SERIES F. BIOTECHNOLOGIES, vol. 20, 1 January 2016 (2016-01-01), XP093008493
- [T] CONGUR GULSAH ET AL: "Levan modified DNA biosensor for voltammetric detection of daunorubicin-DNA interaction", SENSORS AND ACTUATORS B: CHEMICAL, ELSEVIER BV, NL, vol. 326, 31 August 2020 (2020-08-31), XP086327222, ISSN: 0925-4005, [retrieved on 20200831], DOI: 10.1016/J.SNB.2020.128818
- See references of WO 2021133339A2

Designated contracting state (EPC)

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