

Title (en)

METHODS AND APPARATUS FOR THE DELIVERY OF HEPATITIS B VIRUS (HBV) VACCINES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR VERABREICHUNG VON HEPATITIS-B-VIRUS (HBV)-IMPFSTOFFEN

Title (fr)

MÉTHODES ET APPAREIL POUR L'ADMINISTRATION DE VACCINS CONTRE LE VIRUS DE L'HÉPATITE B (VHB)

Publication

EP 3727441 A1 20201028 (EN)

Application

EP 18830986 A 20181218

Priority

- US 2017067269 W 20171219
- US 201762607430 P 20171219
- US 2018066157 W 20181218

Abstract (en)

[origin: WO2019126120A1] Methods and apparatus for the reproducible, consistent and efficacious delivery of an HBV vaccine to a subject. The disclosure comprises apparatus for the controlled administration of the HBV vaccine through an orifice to the subject, a plurality of penetrating electrodes arranged with a predetermined spatial relationship relative to the orifice, and an electrical signal generator operatively connected to the electrodes.

IPC 8 full level

A61K 39/12 (2006.01); **A61K 39/29** (2006.01); **A61N 1/00** (2006.01); **A61P 31/14** (2006.01)

CPC (source: EP IL KR)

A61B 17/205 (2013.01 - KR); **A61K 39/12** (2013.01 - EP IL); **A61K 39/292** (2013.01 - EP IL KR); **A61M 5/20** (2013.01 - KR); **A61M 5/24** (2013.01 - KR); **A61N 1/0412** (2013.01 - KR); **A61N 1/0428** (2013.01 - KR); **A61N 1/0502** (2013.01 - EP IL KR); **A61N 1/306** (2013.01 - IL); **A61N 1/325** (2013.01 - EP IL KR); **A61N 1/327** (2013.01 - EP IL KR); **A61M 2005/2073** (2013.01 - KR); **A61M 2037/0007** (2013.01 - KR); **A61N 1/306** (2013.01 - EP); **C12N 2740/00034** (2013.01 - EP IL)

Citation (search report)

See references of WO 2019126120A1

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

DOCDB simple family (publication)

WO 2019126120 A1 20190627; AU 2018390825 A1 20200618; BR 112020012171 A2 20201124; CA 3085492 A1 20190627; CN 111867624 A 20201030; EP 3727441 A1 20201028; IL 275429 A 20200831; JP 2021506431 A 20210222; KR 20200101388 A 20200827; MA 51292 A 20201028; MX 2020006478 A 20200922; SG 11202005709Q A 20200729

DOCDB simple family (application)

US 2018066157 W 20181218; AU 2018390825 A 20181218; BR 112020012171 A 20181218; CA 3085492 A 20181218; CN 201880089692 A 20181218; EP 18830986 A 20181218; IL 27542920 A 20200617; JP 2020533179 A 20181218; KR 20207020181 A 20181218; MA 51292 A 20181218; MX 2020006478 A 20181218; SG 11202005709Q A 20181218