

Title (en)
DEVICES AND METHODS OF URINALYSIS FOR REAL-TIME MONITORING OF ORGAN HEALTH

Title (de)
VORRICHTUNGEN UND VERFAHREN ZUR HARNANALYSE ZUR ECHTZEITÜBERWACHUNG DER ORGANGESUNDHEIT

Title (fr)
DISPOSITIFS ET MÉTHODES D'ANALYSE D'URINE DESTINÉS À UNE SURVEILLANCE EN TEMPS RÉEL DE LA SANTÉ D'UN ORGANE

Publication
EP 4118424 A4 20240417 (EN)

Application
EP 21768007 A 20210310

Priority

- US 202062987716 P 20200310
- US 2021021763 W 20210310

Abstract (en)
[origin: WO2021183678A1] A non-invasive system and method for disease detection and real-time monitoring of organ health wherein the changes in the electrical properties of urine samples are studied over time in the presence or absence of interacting electrochemicals for qualitative and quantitative estimation of urinary analytes. The system has two components – a test platform and a reader. The test platform is integrated with electrodes and electrochemicals, which interact with urine to detect the biomarker of the disease and quantify the analyte. The changes in the electrical properties serve as an electrical signature for a particular analyte. This electrical signal from the test platform is relayed to an electronic reader that receives, processes, and analyzes the data for single test detection or continuous monitoring. The reader stores the information that can then be coupled to a readout system or transmitted by wired or wireless mechanisms to any electronic platform in real-time.

IPC 8 full level
G01N 33/493 (2006.01); **G01N 27/06** (2006.01); **G01N 27/26** (2006.01); **G01N 27/28** (2006.01); **G01N 27/30** (2006.01); **G01N 27/327** (2006.01)

CPC (source: EP)
A61B 5/207 (2013.01); **G01N 33/493** (2013.01); **G01N 27/06** (2013.01)

Citation (search report)

- [I] WO 2009035599 A1 20090319 - ROCONA INC [US], et al
- [Y] US 2016051176 A1 20160225 - RAMOS RUBEN [US], et al
- [XYI] US 2018321218 A1 20181108 - HALL DAVID R [US], et al
- [XI] US 2015359522 A1 20151217 - RECHT MICHAEL I [US], et al
- [XI] US 10383606 B1 20190820 - MCCORD MATTHEW [US], et al
- [A] US 2018206772 A1 20180726 - HALL DAVID R [US], et al
- [A] US 2019033288 A1 20190131 - MOSTAFA ASGHAR DAVID [US], et al
- See also references of WO 2021183678A1

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

DOCDB simple family (publication)
WO 2021183678 A1 20210916; AU 2021233839 A1 20221103; CA 3171291 A1 20210916; EP 4118424 A1 20230118; EP 4118424 A4 20240417

DOCDB simple family (application)
US 2021021763 W 20210310; AU 2021233839 A 20210310; CA 3171291 A 20210310; EP 21768007 A 20210310