

Title (en)

COMPACT DEVICE FOR NON-INVASIVE MEASUREMENT OF MARKERS IN PHYSIOLOGICAL FLUIDS

Title (de)

KOMPAKTE VORRICHTUNG ZUR NICHTINVASIVEN MESSUNG VON MARKERN IN PHYSIOLOGISCHEN FLÜSSIGKEITEN

Title (fr)

DISPOSITIF COMPACT POUR LA MESURE NON INVASIVE DE MARQUEURS DANS DES FLUIDES PHYSIOLOGIQUES

Publication

EP 3977097 A1 20220406 (EN)

Application

EP 19742649 A 20190529

Priority

IB 2019054448 W 20190529

Abstract (en)

[origin: WO2020240258A1] A compact device for non-invasive measurement of markers in physiological fluids of a mammal including human is disclosed. The device comprises an optical module comprising a source which is emitting electromagnetic radiation for exciting fluorescent substance; a sensor module at the output of optical module for receiving electromagnetic radiation from optical module; a processor for data processing; a controller; display and an interface. The fluorescent substance is in a capillary, the capillary is inserted into removable strip and the removable strip is inserted into the optical module. The sensor module comprises compact photon counter equipped with thermal compensation circuit and active avalanche quenching system. The optical module further comprises electromagnetic waves trap for absorbing of unnecessary electromagnetic radiation in the optical module.

IPC 8 full level

G01N 21/64 (2006.01); **A61B 5/145** (2006.01); **G01J 3/44** (2006.01); **G01N 21/03** (2006.01); **G01N 21/84** (2006.01)

CPC (source: EP)

A61B 5/14507 (2013.01); **A61B 5/14532** (2013.01); **A61B 5/1455** (2013.01); **G01N 21/6428** (2013.01); **G01N 21/645** (2013.01); **G01N 21/8483** (2013.01); **A61B 2562/0295** (2013.01); **G01J 3/4406** (2013.01); **G01J 2001/442** (2013.01); **G01J 2001/444** (2013.01); **G01J 2001/4466** (2013.01); **G01N 2021/0346** (2013.01); **G01N 2201/0642** (2013.01)

Citation (search report)

See references of WO 2020240258A1

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 2020240258 A1 20201203; EP 3977097 A1 20220406

DOCDB simple family (application)

IB 2019054448 W 20190529; EP 19742649 A 20190529