

Title (en)

NON-INVASIVE ANALYTE SENSING AND SYSTEM WITH DECOUPLED AND INEFFICIENT TRANSMIT AND RECEIVE ANTENNAS

Title (de)

NICHTINVASIVE ANALYTMESSUNG UND SYSTEM MIT ENTKOPPELTEN UND INEFFIZIENTEN SENDE- UND EMPFANGSANTENNEN

Title (fr)

DÉTECTION D'ANALYTES NON INVASIVE ET SYSTÈME AYANT DES ANTENNES DE TRANSMISSION ET DE RÉCEPTION DÉCOUPLÉES ET INEFFICACES

Publication

**EP 4076184 A1 20221026 (EN)**

Application

**EP 20903769 A 20201218**

Priority

- US 201962951756 P 20191220
- US 201962951776 P 20191220
- US 201962951788 P 20191220
- US 201962951806 P 20191220
- US 201962951816 P 20191220
- IB 2020062222 W 20201218

Abstract (en)

[origin: WO2021124275A1] A non-invasive analyte sensor system includes an antenna/detector array having at least one transmit antenna/element and at least one receive antenna/element, wherein the at least one transmit antenna/element and the at least one receive antenna/element are less than 95% coupled to one another, or less than 90% coupled to one another, or less than 85% coupled to one another, or less than 75% coupled to one another. The at least one transmit antenna/element transmits a transmit signal in a radio or microwave frequency range of the electromagnetic spectrum into a target containing an analyte of interest, and the at least one receive antenna/element detects a response resulting from transmission of the transmit signal by the at least one transmit antenna/element into the target.

IPC 8 full level

**A61B 5/145** (2006.01); **A61B 5/00** (2006.01); **A61B 5/05** (2021.01); **A61B 5/1455** (2006.01)

CPC (source: EP KR)

**A61B 5/0075** (2013.01 - KR); **A61B 5/05** (2013.01 - KR); **A61B 5/0507** (2013.01 - EP KR); **A61B 5/14507** (2013.01 - KR); **A61B 5/14532** (2013.01 - EP KR); **A61B 5/14546** (2013.01 - EP KR); **A61B 5/7257** (2013.01 - EP)

Designated contracting state (EPC)

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Designated validation state (EPC)

KH MA MD TN

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DOCDB simple family (application)

**IB 2020062222 W 20201218**; CN 202080087632 A 20201218; EP 20903769 A 20201218; KR 20227025254 A 20201218; TW 109143962 A 20201211