

Title (en)

DEVICE FOR MEASURING VITAL PARAMETERS WITH ADVANTAGEOUS RADIATION GUIDANCE

Title (de)

VORRICHTUNG ZUM MESSEN VON VITALPARAMETERN MIT VORTEILHAFTER STRAHLUNGSFÜHRUNG

Title (fr)

DISPOSITIF DE MESURE DE PARAMÈTRES VITAUX POURVU D'UN GUIDAGE AVANTAGEUX DU RAYONNEMENT

Publication

**EP 4064974 A1 20221005 (DE)**

Application

**EP 20819657 A 20201130**

Priority

- DE 102019008332 A 20191201
- EP 2020083973 W 20201130

Abstract (en)

[origin: WO2021110603A1] The present invention relates to a positioning and exposure device (1) for the defined arrangement on at least one body part (2, 3) of a living being (4) and for exposing the body part (2, 3) to radiation for determining at least one vital parameter of the living being (4). The positioning and exposure device (1) here comprises at least: a guiding and support structure (6) for delimiting an examination area (8), wherein the body part (2) can be positioned during exposure in the examination area (8), wherein the guiding and support structure (6) in a section (10) bounding the examination area (8) forms at least one radiation input area (12), wherein radiation can be introduced through the radiation input area (12) into the examination area (8) and wherein the guiding and support structure (6) forms a radiation exit area (16) in a further portion (14) delimiting the examination area (8), wherein at least part of the radiation which can be introduced through the radiation input area (12) into the examination area (8) can be guided out of the examination area (8) through the radiation exit area (16), and wherein a first elongate optical guide (18) is arranged in the path (20) of the radiation at least before entry into the examination area (8), wherein the first optical guide (18) is curved at least in sections for at least one deflection of the path (20) of the radiation which can be introduced into the first optical guide (18).

IPC 8 full level

**A61B 5/021** (2006.01); **A61B 5/022** (2006.01); **A61B 5/0225** (2006.01)

CPC (source: EP US)

**A61B 5/02108** (2013.01 - US); **A61B 5/02141** (2013.01 - EP); **A61B 5/02241** (2013.01 - EP); **A61B 5/02255** (2013.01 - EP); **A61B 5/02416** (2013.01 - US); **A61B 5/6826** (2013.01 - US); **A61B 5/7278** (2013.01 - US); **A61B 2562/0238** (2013.01 - US)

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)

**DE 102019008332 A1 20210602**; **DE 102019008332 B4 20210701**; CN 115038378 A 20220909; EP 4064974 A1 20221005; US 2023018584 A1 20230119; WO 2021110603 A1 20210610

DOCDB simple family (application)

**DE 102019008332 A 20191201**; CN 202080095108 A 20201130; EP 2020083973 W 20201130; EP 20819657 A 20201130; US 202017780951 A 20201130