

Title (en)

DEVICE, SYSTEM AND METHOD FOR OBTAINING VITAL SIGN RELATED INFORMATION OF A LIVING BEING

Title (de)

VORRICHTUNG, SYSTEM UND VERFAHREN ZUM ERHALT EINES LEBENSZEICHENINFORMATIONEN EINES LEBEWESENS

Title (fr)

DISPOSITIF, SYSTÈME ET PROCÉDÉ POUR OBTENIR DES INFORMATIONS RELATIVES AUX SIGNES VITAUX D'UN ÊTRE VIVANT

Publication

EP 3359029 A1 20180815 (EN)

Application

EP 16777692 A 20161006

Priority

- EP 15188480 A 20151006
- US 201562237737 P 20151006
- EP 2016073862 W 20161006

Abstract (en)

[origin: WO2017060342A1] The present invention relates to a device, system and method for obtaining vital sign related information of a living being (3). The proposed device comprises an input unit (12) for receiving an input signal (32) generated from light (31) received in at least one wavelength interval reflected from a skin region (2) of a living being (3), said input signal representing vital sign related information from which a vital sign of the living being can be derived, a processing unit (14) for processing the input signal (32) and deriving vital sign related information (36) of said living being from said input signal (32), an orientation estimation unit (16) for estimating the orientation of said skin region (2), and a control unit (18) for controlling an illumination unit (40) for illuminating said skin region (3) with light (41) to illuminate said skin region (2) based on the estimated orientation of said skin region (2) and/or for controlling said processing unit to derive vital sign related information (36) from said input signal obtained during time intervals selected based on the estimated orientation of said skin region (2).

IPC 8 full level

A61B 5/024 (2006.01); **A61B 5/00** (2006.01); **A61B 5/11** (2006.01); **A61B 5/113** (2006.01)

CPC (source: EP)

A61B 5/0064 (2013.01); **A61B 5/0077** (2013.01); **A61B 5/02416** (2013.01); **A61B 5/1121** (2013.01); **A61B 5/113** (2013.01); **A61B 5/7203** (2013.01)

Citation (search report)

See references of WO 2017060342A1

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 2017060342 A1 20170413; BR 112018006813 A2 20181016; CN 108135515 A 20180608; EP 3359029 A1 20180815; JP 2018534025 A 20181122; JP 6854284 B2 20210407; MX 2018004088 A 20180706; RU 2018116893 A 20191107

DOCDB simple family (application)

EP 2016073862 W 20161006; BR 112018006813 A 20161006; CN 201680058214 A 20161006; EP 16777692 A 20161006; JP 2018516154 A 20161006; MX 2018004088 A 20161006; RU 2018116893 A 20161006