

Title (en)

SINGLE WEARABLE DEVICE SYSTEM FOR MEASURING BLOOD PRESSURE

Title (de)

EINZELNES WEARABLE-VORRICHTUNGSSYSTEM ZUR BLUTDRUCKMESSUNG

Title (fr)

SYSTÈME DE DISPOSITIF PORTABLE UNIQUE POUR MESURER LA PRESSION ARTÉRIELLE

Publication

EP 3484354 A1 20190522 (EN)

Application

EP 17828364 A 20170712

Priority

- US 201662361330 P 20160712
- US 201662414892 P 20161031
- US 2017041670 W 20170712

Abstract (en)

[origin: WO2018013656A1] A system for sensing blood pressure in a user is disclosed. The system includes a wearable sensor device attached to a location on the body remote from the heart. The sensor device can include an accelerometer (or acoustic) sensor, an ECG sensor and/or a PPG sensor. A controller receives SCG, ECG and PPG waveforms from the sensors to determine a pulse arrival time, pulse transit time and pre-ejection period. The controller is operative to determine the blood pressure based on the determined pulse arrival time and the distance from the sensor device to the heart.

IPC 8 full level

A61B 5/0402 (2006.01)

CPC (source: EP US)

A61B 5/02125 (2013.01 - EP); **A61B 5/33** (2021.01 - US); **A61B 5/6833** (2013.01 - EP); **A61B 5/02416** (2013.01 - EP); **A61B 5/1102** (2013.01 - EP); **A61B 5/318** (2021.01 - EP); **A61B 5/6824** (2013.01 - EP)

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 2018013656 A1 20180118; CN 109688914 A 20190426; EP 3484354 A1 20190522; EP 3484354 A4 20200311

DOCDB simple family (application)

US 2017041670 W 20170712; CN 201780055320 A 20170712; EP 17828364 A 20170712