

Title (en)
MULTI-SENSOR BLOOD PRESSURE MEASUREMENT SYSTEM

Title (de)
BLUTDRUCKMESSSYSTEM MIT MEHREREN SENSOREN

Title (fr)
SYSTÈME DE MESURE À CAPTEURS MULTIPLES DE LA PRESSION ARTÉRIELLE.

Publication
EP 3481293 A4 20200304 (EN)

Application
EP 17828308 A 20170711

Priority
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• US 2017041540 W 20170711

Abstract (en)
[origin: WO2018013569A1] A system for sensing blood pressure in a user is disclosed. The system includes a master sensor device including a clock signal generator generating a clock signal, a transceiver transmitting the clock signal, and a pulse sensor sensing a pulse of the user. The master sensor device is attached on a first location on the user. A first slave sensor device is attached at a second location on the user remote from the first location. The slave sensor device includes a pulse sensor sensing the pulse of the user and a transceiver receiving the clock signal from the master sensor device. The first slave sensor device synchronizes the sensing of the pulse to the clock signal. The transceiver transmits a time stamp signal to the master sensor. The blood pressure of the user is determined based on a pulse transit time or pulse arrival time between the sensing of the pulse by the master sensor device and the first slave sensor device.

IPC 8 full level
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CPC (source: EP)
A61B 5/0022 (2013.01); **A61B 5/0024** (2013.01); **A61B 5/02125** (2013.01); **A61B 5/0261** (2013.01); **A61B 5/282** (2021.01); **A61B 5/352** (2021.01); **A61B 5/4839** (2013.01); **A61B 5/6822** (2013.01); **A61B 5/6823** (2013.01); **A61B 5/6824** (2013.01); **A61B 5/6828** (2013.01); **A61B 5/6829** (2013.01); **A61B 5/7285** (2013.01); **G16H 40/63** (2017.12); **A61B 5/01** (2013.01); **A61B 5/1102** (2013.01); **A61B 5/14551** (2013.01); **A61B 2560/0223** (2013.01); **A61B 2560/0252** (2013.01); **A61B 2562/0219** (2013.01); **A61B 2562/164** (2013.01)

Citation (search report)
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• [X1] US 2011066044 A1 20110317 - MOON JIM [US], et al
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• [X1] LIN HAO ET AL: "Noninvasive and Continuous Blood Pressure Monitoring Using Wearable Body Sensor Networks", IEEE INTELLIGENT SYSTEMS, IEEE, US, vol. 30, no. 6, 23 September 2015 (2015-09-23), pages 38 - 48, XP011589366, ISSN: 1541-1672, [retrieved on 20151105], DOI: 10.1109/MIS.2015.72
• [X1] JUAN FRANCO ET AL: "Continuous, Non-invasive and Cuff-free Blood Pressure Monitoring System", ANDEAN REGION INTERNATIONAL CONFERENCE (ANDESCON), 2012 VI, IEEE, 7 November 2012 (2012-11-07), pages 31 - 34, XP032419437, ISBN: 978-1-4673-4427-2, DOI: 10.1109/ANDESCON.2012.17
• See references of WO 2018013569A1

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DOCDB simple family (publication)
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