

Title (en)

PORTABLE DEVICE WITH MULTIPLE INTEGRATED SENSORS FOR VITAL SIGNS SCANNING

Title (de)

TRAGBARE VORRICHTUNG MIT MEHREREN INTEGRIERTEN SENSOREN FÜR DAS SCANNEN VON VITALZEICHEN

Title (fr)

DISPOSITIF PORTABLE COMPRENANT DE MULTIPLES CAPTEURS INTÉGRÉS POUR L'ANALYSE DES SIGNES VITAUX

Publication

**EP 3139825 A4 20180627 (EN)**

Application

**EP 15789393 A 20150505**

Priority

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- US 2015029330 W 20150505

Abstract (en)

[origin: WO2015171667A1] In one embodiment of the invention, a portable device with multiple integrated sensors for vital signs scanning and method of using said device is disclosed. The portable personal scanning device includes multiple sensors such as a plurality of ECG, thermometer, PPG, accelerometer, and microphone for determining a user's vital signs. The method includes concurrently scanning with one or more sensors, validating and enhancing the results of each sensor scan with other concurrent sensor scan and patient interaction models, processing the sensor scans separately or in combination to extract user's vital signs, validating the vital signs extracted by comparison to physiological models, and fusing the similar vital signs extracted from more than one process according to a determination of the measure of quality of the process that produced the vital sign.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [XII] US 2008249382 A1 20081009 - OH HYUN-HO [KR], et al
- [XAI] US 2010222652 A1 20100902 - CHO OK KYUNG [DE], et al
- [A] US 2013171599 A1 20130704 - BLEICH JEFFERY LEE [US], et al
- [A] KR 20100114330 A 20101025 - LEE YOUNG WOO [KR], et al
- [A] CN 103584871 A 20140219 - AZIMI SAEED & US 2015045629 A1 20150212 - AZIMI SAEED [US]
- [A] US 2014107493 A1 20140417 - YUEN SHELTON GEE JAO [US], et al
- [AD] AYSEGÜL ISLER ET AL: "Comparison of temporal artery to mercury and digital temperature measurement in pediatrics", INTERNATIONAL EMERGENCY NURSING, vol. 22, no. 3, 10 October 2013 (2013-10-10), AMSTERDAM, NL, pages 165 - 168, XP055475387, ISSN: 1755-599X, DOI: 10.1016/j.ienj.2013.09.003
- See references of WO 2015171667A1

Designated contracting state (EPC)

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