

Title (en)
HOME OCCUPANT DETECTION AND MONITORING SYSTEM

Title (de)
HAUSBEWOHNERDETEKTIONS- UND -ÜBERWACHUNGSSYSTEM

Title (fr)
SYSTÈME DE DÉTECTION ET DE SURVEILLANCE D'OCCUPANTS D'UNE MAISON

Publication
EP 3720342 A4 20210811 (EN)

Application
EP 18887010 A 20181206

Priority

- US 201762595186 P 20171206
- US 201762595181 P 20171206
- US 201862626758 P 20180206
- US 201815916215 A 20180308
- US 2018064273 W 20181206

Abstract (en)
[origin: WO2019113332A1] A occupant detection and monitoring system has a sensor unit having a radio wave transmitter, a radio wave receiver, and a wireless transmitter configured to detect and receive vital signs of an occupant; a user interface having a microcontroller, a wireless receiver configured to receive the wireless signals transmitted from the sensor unit, a means for user input, and a network card; and a means for alerting occupants and third-parties to a triggering event; wherein the microcontroller, based upon logic, activates the alerting means at the triggering event. The sensor unit may be a camera that detects the presence of an individual and register their unique heart rhythm for identification purposes. This camera can be installed at the entry points of a home, behind the counter of a business near a cash register or at a bank or any other place that desires to use surveillance as a form of security. The sensor unit may be a light bulb that comprises the components of the sensor unit. The sensor unit may be a contactless vital sign monitor capable of remotely monitoring one or more vital signs.

IPC 8 full level
A61B 5/00 (2006.01); **A61B 5/02** (2006.01); **A61B 5/0205** (2006.01); **A61B 5/0507** (2021.01); **A61B 5/11** (2006.01); **G01S 7/41** (2006.01); **G01S 13/00** (2006.01); **G06K 9/00** (2006.01); **H04L 29/00** (2006.01); **H04N 7/18** (2006.01); **H04W 4/00** (2018.01)

CPC (source: EP)
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Citation (search report)

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- [I] CN 202154683 U 20120307 - SHANDONG PULAITE RES INST OF ENERGY & ELECTRICAL APPLIANCE
- [A] DE 102009033829 A1 20110120 - KOUEMOU GUY LEONARD [DE]
- [I] ERNST ROBERT ET AL: "60GHz vital sign radar using 3D-printed lens", 2016 IEEE SENSORS, IEEE, 30 October 2016 (2016-10-30), pages 1 - 3, XP033037053, DOI: 10.1109/ICSENS.2016.7808774
- [A] BRUSER CHRISTOPH ET AL: "Ambient and Unobtrusive Cardiorespiratory Monitoring Techniques", IEEE REVIEWS IN BIOMEDICAL ENGINEERING, vol. 8, 17 August 2015 (2015-08-17), pages 30 - 43, XP011666728, ISSN: 1937-3333, [retrieved on 20150817], DOI: 10.1109/RBME.2015.2414661
- See references of WO 2019113332A1

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