

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)  
**A61B 5/0077** (2013.01); **A61B 5/0205** (2013.01); **A61B 5/0507** (2013.01); **A61B 5/0816** (2013.01); **A61B 5/1102** (2013.01); **A61B 5/117** (2013.01); **A61B 5/746** (2013.01); **G01S 7/006** (2013.01); **G01S 7/415** (2013.01); **G01S 13/34** (2013.01); **G06V 20/52** (2022.01); **G06V 40/166** (2022.01); **H04L 69/00** (2013.01); **H04N 7/18** (2013.01); **A61B 5/6891** (2013.01); **G06F 2218/12** (2023.01); **G06V 40/15** (2022.01); **H04W 4/80** (2018.01)

Citation (search report)

- [I] WO 2015174879 A1 20151119 - NOVELIC D O O [RS]
- [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

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

DOCDB simple family (publication)  
**WO 2019113332 A1 20190613**; BR 112020011425 A2 20201124; EP 3720342 A1 20201014; EP 3720342 A4 20210811

DOCDB simple family (application)  
**US 2018064273 W 20181206**; BR 112020011425 A 20181206; EP 18887010 A 20181206