

Title (en)
WEARABLE PHYSIOLOGICAL MONITORING SYSTEM

Title (de)
AM KÖRPER TRAGBARES, PHYSIOLOGISCHES ÜBERWACHUNGSSYSTEM

Title (fr)
SYSTÈME DE SURVEILLANCE PHYSIOLOGIQUE PORTABLE

Publication
EP 3946045 A4 20221221 (EN)

Application
EP 20776824 A 20200320

Priority
• US 201916363404 A 20190325
• US 201916419358 A 20190522
• US 2020023787 W 20200320

Abstract (en)
[origin: WO2020197978A1] A wearable respiration monitoring system having a transmitter coil that is adapted to generate and transmit multi-frequency AC magnetic fields, a plurality of receiving coils adapted to detect variable strengths in the AC magnetic fields and generate AC magnetic field strength signals representing anatomical displacements of a monitored subject, and at least one accelerometer that is configured to detect and monitor anatomical positions and movement of the subject, and generate and transmit accelerometer signals representing same. The wearable monitoring system further includes an electronics module that is adapted to receive the AC magnetic field strength signals and accelerometer signals, and determine at least one respiratory disorder as a function of the AC magnetic field strength signals and at least one anatomical position of the subject as a function of the accelerometer signals.

IPC 8 full level
A61B 5/08 (2006.01); **A61B 5/00** (2006.01); **A61B 5/091** (2006.01); **A61B 5/11** (2006.01); **A61B 5/113** (2006.01); **A61B 5/01** (2006.01); **A61B 5/145** (2006.01); **A61F 5/56** (2006.01); **A61M 21/00** (2006.01)

CPC (source: EP)
A61B 5/1126 (2013.01); **A61B 5/113** (2013.01); **A61B 5/4818** (2013.01); **A61B 5/6805** (2013.01); **A61B 5/6823** (2013.01); **A61M 21/00** (2013.01); **A61B 5/01** (2013.01); **A61B 5/0826** (2013.01); **A61B 5/14542** (2013.01); **A61B 5/4561** (2013.01); **A61B 5/741** (2013.01); **A61B 5/7455** (2013.01); **A61B 2562/0223** (2013.01); **A61F 5/56** (2013.01); **A61M 2021/0022** (2013.01); **A61M 2021/0027** (2013.01); **A61M 2021/0044** (2013.01); **A61M 2205/0294** (2013.01); **A61M 2205/10** (2013.01); **A61M 2205/332** (2013.01); **A61M 2205/3553** (2013.01); **A61M 2205/3592** (2013.01); **A61M 2205/587** (2013.01); **A61M 2209/088** (2013.01); **A61M 2210/10** (2013.01); **A61M 2230/04** (2013.01); **A61M 2230/06** (2013.01); **A61M 2230/10** (2013.01); **A61M 2230/205** (2013.01); **A61M 2230/30** (2013.01); **A61M 2230/40** (2013.01); **A61M 2230/42** (2013.01); **A61M 2230/50** (2013.01); **A61M 2230/60** (2013.01); **A61M 2230/62** (2013.01); **A61M 2230/63** (2013.01)

Citation (search report)
• [I] EP 2289403 A1 20110302 - ADIDAS AG [DE]
• [AD] US 2012179005 A1 20120712 - MCCOOL FRANKLIN DENNIS [US]
• See references of WO 2020197978A1

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 2020197978 A1 20201001; CA 3133993 A1 20201001; EP 3946045 A1 20220209; EP 3946045 A4 20221221; JP 2022527068 A 20220530

DOCDB simple family (application)
US 2020023787 W 20200320; CA 3133993 A 20200320; EP 20776824 A 20200320; JP 2021557317 A 20200320