

Title (en)

WIRELESS SYSTEM FOR MEDICAL DEVICE TRIGGERING

Title (de)

DRAHTLOSES SYSTEM ZUR AUSLÖSUNG EINER MEDIZINISCHEN VORRICHTUNG

Title (fr)

SYSTÈME SANS FIL PERMETTANT DE DÉCLENCHER UN DISPOSITIF MÉDICAL

Publication

EP 4236786 A2 20230906 (EN)

Application

EP 21805863 A 20211028

Priority

- US 202063106932 P 20201029
- EP 2021079933 W 20211028

Abstract (en)

[origin: WO2022090369A2] A ventilator communication system includes an electromyography ("EMG") device including EMG electrodes configured to generate electrical signals based on muscular respiratory activity of the patient, and a ventilator. The EMG device is configured to generate a patient respiratory effort waveform based on the electrical signals and analyze the patient respiratory effort waveform. The EMG device includes a first near-field magnetic induction ("NFMI") transceiver configured to generate at least one transmission signal derived from the analysis of the patient respiratory effort waveform and transmit the at least one transmission signal on at least one NFMI communication channel. The ventilator is configured to provide breathing assistance to the patient, wherein the ventilator includes a second NFMI transceiver configured to receive the at least one transmission signal from the EMG device and a controller configured to adjust the breathing assistance provided to the patient based on the at least one transmission signal.

IPC 8 full level

A61B 5/08 (2006.01); **A61B 5/00** (2006.01); **A61B 5/0205** (2006.01); **A61B 5/397** (2021.01); **A61M 16/00** (2006.01); **G16H 20/40** (2018.01); **G16H 40/63** (2018.01); **H04B 5/00** (2006.01)

CPC (source: EP)

A61B 5/002 (2013.01); **A61B 5/08** (2013.01); **A61B 5/397** (2021.01); **A61M 16/024** (2017.07); **G16H 20/40** (2017.12); **G16H 40/63** (2017.12); **H04B 5/24** (2024.01); **H04B 5/266** (2024.01); **H04B 5/72** (2024.01); **H04B 13/005** (2013.01); **A61B 5/02055** (2013.01); **A61M 16/0051** (2013.01); **A61M 2205/3306** (2013.01); **A61M 2205/3569** (2013.01); **A61M 2205/3592** (2013.01); **A61M 2230/10** (2013.01); **A61M 2230/205** (2013.01); **A61M 2230/30** (2013.01); **A61M 2230/432** (2013.01); **A61M 2230/50** (2013.01); **A61M 2230/60** (2013.01)

Citation (search report)

See references of WO 2022090369A2

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022090369 A2 20220505; **WO 2022090369 A3 20220623**; CN 116437858 A 20230714; EP 4236786 A2 20230906

DOCDB simple family (application)

EP 2021079933 W 20211028; CN 202180074173 A 20211028; EP 21805863 A 20211028