

Application No. 17/000,000
Attorney Docket No. 698

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Ligatus, Bene
Application No.: 17/000,000
Filed: April 4, 2025
For: ELECTRONIC RESTRAINT
DEVICE

Examiner: Nile, Daniel ✓
Group Art Unit: 3667
Attorney Docket No.: 698
Confirmation No.: 1234

AMENDMENT

A

Mail Stop AF
Commissioner for Patents
P.O. Box 1450 ✓
Alexandria, VA 22313-1450

Dear Examiner Nile, ✓

This Amendment is in response to the Office Action mailed April 25, 2025. This Amendment is timely because it is being submitted within the period for reply which expires July 25, 2025. Please enter and consider the following:

- claim identifiers OK
- Mentions Examiner interview

Good Job!
claims are pretty clear
argument is pretty focused

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) A system including:

a restraining device;

a processor structurally connected to said restraining device;

a sensor structurally connected to said restraining device, wherein said sensor is in

electronic data communication with said processor, wherein said sensor detects an oxygen saturation of a subject and determines a current oxygen saturation data based on said oxygen saturation, and transmits said current oxygen saturation data to said processor; and

~~at least one~~ a light emitting diode structurally connected to said restraining device,

wherein said light emitting diode is in electronic data communication with

said processor, ~~wherein said processor compares said current oxygen~~

~~saturation data to at least one predetermined oxygen saturation threshold~~

~~value~~ receives said current oxygen saturation data from said sensor, and

wherein said processor determines a current oxygen saturation value based

on said received current oxygen saturation data, and wherein said

processor illuminates said ~~at least one~~ light emitting diode when said

*add link
return for
clarity*

pretty good claim!

~~current oxygen saturation data falls below a predetermined oxygen saturation threshold value; and value is 94% or less.~~

~~a mobile device including a device processor, a device transceiver, a device memory storing at least one predetermined oxygen saturation threshold value and a user interface, wherein said device transceiver is configured for electronic data communication with said processor through a wireless network connection, and wherein said device processor is configured to display at least one predetermined oxygen saturation threshold value stored in said device memory on said user interface.~~

2. (Currently Amended) The system of claim 1, further including a data memory structurally connected to said restraining device, wherein said data memory is storage unit in electronic data communication with said processor, wherein said data memory storage unit is configured to stores at least one predetermined numeric oxygen saturation a threshold data utilized by said processor value, and wherein said restraining device is configured to send said current oxygen saturation data to said data storage unit for comparison against the stored threshold value.

3. (Currently Amended) The system of claim 2, further including an audio memory storage unit structurally connected to said restraining device, wherein said audio memory storage unit is in electronic data communication with said processor restraining device and a speaker structurally connected to said restraining device, wherein said speaker is in electronic data communication with said processor,

do not amend individual letters of one word

Application No. 17/000,000
Attorney Docket No. 698

wherein said audio memory storage unit stores ~~at least one audio alert file including~~
~~audio data, and wherein said processor restraining device retrieves said audio alert~~
~~data file upon determination that said current oxygen saturation data satisfies the~~
~~predetermined threshold conditions~~ from said audio memory and outputs an audio
alert ^{using} through said speaker when said current oxygen saturation value is 94% or less.

Based on said audio alert data

Claims

4-10

(Cancelled)

Word speaking

Application No. 17/000,000
Attorney Docket No. 698

REMARKS

The Applicant thanks Examiner Nile for his time and effort in preparing the Final Office Action dated April 25, 2025, and for the telephonic interview on April 25, 2025. The present application includes Claims 1-10. Claims 1-10 were rejected by the Examiner. By this Amendment, claims 4-10 have been cancelled, claims 1-3 have been amended, and no new claims have been added.

Claims 1-10 were rejected under 35 U.S.C. §112(b) as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor regards as the invention.

Claims 3 and 7 were rejected under 35 U.S.C. §101 as being directed to non-statutory subject matter.

Claims 1-10 were rejected under 35 U.S.C. §102(a)(1) as being anticipated by U.S. Pat. App. Pub. No. US2025/0012117.

Claims 1-10 were rejected under 35 U.S.C. §102(a)(1) as being anticipated by U.S. Pat. App. Pub. No. US2023/0013865.

Application No. 17/000,000
Attorney Docket No. 698

The Applicant now turns to the rejection of claims 1-10 under 35 U.S.C. §112 (b) as being indefinite. Claims 1-3 are amended to rectify all these ~~indefinite~~ limitations *identified as indefinite* based on the comments and suggestions obtained during the Examiner interview on April 25, 2025. Claim 1 has been amended to remove the mobile device and include the sensor and LED (light emitting diode) as being part of the restraining device with the language “structurally connected to said restraining device”. Claims 4-10 are cancelled. *✓* Consequently, claims 1-3 are respectfully submitted to be definite and allowable. *✓*

The Applicant now turns to the rejection of claims 1-10 under 35 U.S.C. §101 as being directed to non-statutory subject matter. Claim 3 has been amended to remove all recitations of “satisfying a condition”. Claims 4-10 are cancelled. Consequently, claims 1-3 are respectfully submitted to be definite and allowable. *the remaining*

The Applicant now turns to the rejection of claims 1-10 under 35 U.S.C. § 102(a)(1) as being anticipated by Hughes, U.S. Pat. App. Pub. No. US2023/0013865. Hughes teaches methods and systems integrated into restraint devices to monitor an individual’s vital signs. The processor within the device may receive data from various sensors to assess the detainee’s condition. Hughes teaches incorporating sensors such as SpO2 sensors to measure oxygen saturation levels and PPG or ECG sensors to monitor heart rate.

However, Hughes fails to teach the specific limitations required by amended Claim 1. Specifically, amended Claim 1 requires that the processor is configured to perform the steps of “determines a current oxygen saturation value based on said received current oxygen saturation data” and “illuminates said light emitting diode when said current oxygen saturation value is 94% or less.” While Hughes might generally disclose SpO2 monitoring and alerts based on undefined “predefined thresholds,” Hughes does not teach the specific threshold condition recited in amended Claim 1, specifically “when said current oxygen saturation value is 94% or less”. Claims 4-10 have been cancelled. Consequently, amended Claim 1 is respectfully submitted to be free of ~~anticipation by~~ ^{its} Hughes and therefore allowable under 35 U.S.C. § 102(a)(1), as are dependent claims 2-3.

*good
quality
of claim*

*not
anticipated
or free of "*

The Applicant now turns to the rejection of claims 1-10 under 35 U.S.C. § 102(a)(1) as being anticipated by Rebro, U.S. Pat. App. Pub. No. US2025/0012117. Rebro teaches a vitals monitoring handcuff apparatus. Rebro teaches comparing measurements to parameters to trigger alerts via a communication unit.

↖
However, Rebro fails to teach the specific limitations required by amended Claim 1. Specifically, amended Claim 1 requires that the processor is configured to perform the steps of “determines a current oxygen saturation value based on said received current oxygen saturation data” and “illuminates said light emitting diode when said current

✓

Application No. 17/000,000
Attorney Docket No. 698

oxygen saturation value is 94% or less.” While Rebro generally discloses SpO₂ monitoring and alerts based on generic “given parameters”, Rebro does not teach the specific threshold condition in amended Claim 1, specifically “when said current oxygen saturation value is 94% or less.” Claims 4-10 have been cancelled. Consequently, amended Claim 1 is respectfully submitted to be free of ~~anticipation by~~ Rebro and therefore allowable under 35 U.S.C. § 102(a)(1), as are ^{independent} dependent claims 2-3.

Application No. 17/000,000
Attorney Docket No. 698

CONCLUSION

If the Examiner has any questions or the Applicant can be of any assistance, the Examiner is invited and encouraged to contact the Applicant at the number below. ✓

The Commissioner is authorized to charge any necessary fees or credit any overpayment to the Deposit Account of 698 Account No. 698.

Respectfully submitted,

✓
Date: April 28, 2025

✓
 /698/
698
Registration No. 698

PAT, ENT & WIN
504 E. Pennsylvania Ave.
Champaign, IL 61820

Telephone: 1-888-888-888
Facsimile: 1-888-888-888