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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Conf.# 3434

Brenton Taylor et al

Art Unit: 3771

Application No. 13/066,716

Examiner: Stanis, Timothy A.

Filed: 04/22/2011

For: A Gas Concentrator with Removable Cartridge Adsorbent Beds

RESPONSE TO FINAL ACTION WITH RCE

Mail Stop Amendment
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

In response to the Office Action mailed 06/11/2014, please accept the following amendments and remarks with RCE. A petition for a 3-month extension of time and appropriate fee are included. Replacement drawing sheets are also included

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The following listing of claims replaces all previous listings:

LISTING OF CLAIMS

1. cancelled

2. (previously presented) The portable oxygen concentrator of claim 33 wherein the concentrator weighs less than about 8 pounds.

3. cancelled

4. cancelled

5. (Withdrawn) The concentrator of claim 3 wherein the battery mounts to the instrumentation section and prevents removal of the adsorbers while the battery is attached.

6. cancelled

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7. (currently amended) The ~~adsorber receptacle~~ concentrator of claim 33 wherein the inlet and outlet ports for mating with a user replaceable adsorber are disposed so that the inlet and outlet ports are coaxial to the flow through the adsorber and are open to the inlet and outlet ports of the adsorber.

8. (currently amended) The ~~adsorber receptacle~~ concentrator of claim 33 wherein at least one of the inlet or outlet connectors insert beyond an adsorber radial seal by at least 0.030 inches.

9. (currently amended) The ~~adsorber beds~~ concentrator of claim 33 wherein the inlet and outlet ports contain at least one radial seal.

10. (currently amended) The ~~adsorber beds~~ concentrator of claim 33 wherein the leak rate of the gas connectors is less than about 10 Standard Cubic Centimeters per Minute at the maximum rated operating pressure of the adsorber.

11. (currently amended) The concentrator of claim ± 33 wherein the adsorber receptacle gas connectors are connected to the air control valve by compliant pressure members.

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12. (currently amended) The portable oxygen concentrator of claim 33 wherein the adsorber retention mechanisms comprises a sliding spring loaded plunger and the corresponding retention mating hardware comprises a receptacle which mates with the spring loaded plunger, wherein the spring loaded plunger snaps into the receptacle when the adsorber is mated to the adsorber receptacle thereby retaining the adsorber and actuation of the spring loaded plunger releases the adsorber.

13. (currently amended) The ~~retention mechanism~~ concentrator in claim 12 wherein the ~~retention~~ actuation force of the ~~release mechanism~~ spring loaded plunger is less than about 25 Newtons.

14. (currently amended) The ~~retention mechanism~~ concentrator of claim 12 wherein the spring loaded plunger is finger actuated to release the adsorber.

15. (Withdrawn) The portable oxygen concentrator of claim 4 wherein one of the platform or adsorber retention mechanisms comprises a screw operated tab and the mating retention mechanism comprises a slot which mates with the tab, wherein the tab is

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rotated into the slot when the adsorber is mated to the platform thereby retaining the adsorber and reverse rotation of the tab releases the adsorber.

16. (previously presented) The concentrator of claim 11 wherein the adsorber receptacle gas connectors are directly connected to the compliant members, and when connected to the compliant members are held in place by a housing mounting element structurally independent from the receptacle gas connector.

17. (Withdrawn) The portable oxygen concentrator of claim 4 wherein the platform retention mechanism comprises a push button actuated spring loaded plunger and the adsorber retention mating hardware comprises a slot which mates with the plunger, wherein the spring loaded plunger snaps into the slot when the adsorber is mated to the platform thereby retaining the adsorber and push button actuation of the plunger releases the adsorber.

18. (Withdrawn) The push button actuator of claim 17 wherein the adsorber is released with less than about 25 Newtons of force applied to the push button.

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