

S/N 13/509,873

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor:	Bathe	Examiner	Tsai, Michael Jasper
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Title:	Gas Delivery Device And System		

AMENDMENT/RESPONSE UNDER 37 C.F.R. § 1.111

This paper is being submitted in response to the Office Action dated March 15, 2013, in the above-identified patent application. The USPTO was closed on Saturday, June 15, 2013 and Sunday, June 16, 2013. Accordingly, the three month period for reply to the Office Action expires on Monday, June 17, 2013 and this paper is being timely filed.

Amendments to the specification begin on page 2.

Amendments to the drawings begin on page 3.

Amendments to the claims begin on page 4.

Remarks begin on page 8.

IN THE SPECIFICATION

Please replace paragraph [0005] on pages 1-2 with the following paragraph:

[0005] Aspects of the present invention pertain to a gas delivery device that may be utilized with a gas delivery system and methods for administering therapy gas to a patient. One or more embodiments of the gas delivery devices described herein may include a valve and a circuit with a valve memory in communication with a valve processor and a valve transceiver. One or more embodiments of the gas delivery systems described herein incorporate the gas delivery devices described herein with a control module including a ~~control~~ central processing unit (CPU) in communication with a CPU memory and CPU transceiver. As will be described herein, the valve transceiver and the CPU transceiver may be in communication such that information or data from the valve memory and the CPU memory may be communicated to one another. The information communicated between the valve memory and the CPU memory may be utilized for selecting a therapy for delivery to a patient and controlling delivery of the selected therapy to the patient. The gas delivery devices and systems described herein may be utilized with medical devices such as ventilators and the like to delivery gas to a patient.

IN THE DRAWINGS

Please replace sheets 1 of the drawings with the Replacement Sheet filed herewith.

IN THE CLAIMS

1. (Canceled)

2. (Currently Amended) A gas delivery device to administer therapy gas from a gas source, the gas delivery device comprising:
 - a valve attachable to the gas source, the valve including an inlet and an outlet in fluid communication and a valve actuator to open or close the valve to allow the gas through the valve to a control module; and
 - a circuit including:
 - memory to store gas data comprising one or more of gas identification, gas expiration date and gas concentration and
 - a processor and a transceiver in communication with the memory to send and receive wireless optical line-of-sight signals to communicate the gas data to the control module that controls gas delivery to a subject and to verify one or more of the correct gas, the correct gas concentration and that the gas is not expired,
 - wherein the valve further comprises a data input in communication with said memory, to permit a user to enter the gas data into the memory.

3. (Original) The device of claim 2, wherein the gas data is provided in a bar code disposed on the gas source and is entered into the data input by a user-operated scanning device in communication with the data input.

4. (Currently Amended) A gas delivery device to administer therapy gas from a gas source, the gas delivery device comprising:
 - a valve attachable to the gas source, the valve including an inlet and an outlet in fluid communication and a valve actuator to open or close the valve to allow the gas through the valve to a control module; and
 - a circuit including:
 - memory to store gas data comprising one or more of gas identification, gas expiration date and gas concentration and

a processor and a transceiver in communication with the memory to send and receive wireless optical line-of-sight signals to communicate the gas data to the control module that controls gas delivery to a subject and to verify one or more of the correct gas, the correct gas concentration and that the gas is not expired,

wherein the valve comprises a power source; and the transceiver periodically sends the wireless optical line-of-sight signals to the control module, wherein the signals are interrupted by a duration of time at which no signal is sent.

5. (Original) The device of claim 4, wherein the duration of time at which no signal is sent comprises about 10 seconds.

6. (Canceled)

7. (Currently Amended) A gas delivery system comprising:

a gas delivery device to administer therapy gas from a gas source, the gas delivery device comprising:

a valve attachable to the gas source, the valve including an inlet and an outlet in fluid communication and a valve actuator to open or close the valve to allow the gas through the valve to a control module that controls gas delivery to a subject; and

a circuit including:

memory to store gas data comprising one or more of gas identification, gas expiration date and gas concentration and

a processor and a transceiver in communication with the memory to send and receive wireless optical line-of-sight signals to communicate the gas data to the control module ~~that controls gas delivery to a subject~~ and to verify one or more of the correct gas, the correct gas concentration and that the gas is not expired; and

a the control module, wherein the control module is in fluid communication with the outlet of the valve and a ventilator, ~~wherein~~ and the control module comprises:

a CPU transceiver to receive line-of-sight signals from the transceiver; and

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