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Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

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Lucia Staret Kes

Acting Director of the United States Patent and Trademark Office



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(12) **United States Patent**
Hunt et al.

(10) **Patent No.:** **US 8,430,099 B2**
(45) **Date of Patent:** **Apr. 30, 2013**

(54) **APPARATUS, SYSTEMS AND METHOD FOR COLLECTING AND RECLAIMING ANAESTHETIC AGENTS AND FOR REMOVING NITROUS OXIDE FROM EXHAUST GASES**

(58) **Field of Classification Search** 137/467.5, 137/487.5, 2; 128/205.15, 205.27, 205.12
See application file for complete search history.

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(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(51) **Int. Cl.**
A61M 16/01 (2006.01)

(52) **U.S. Cl.**
USPC 128/205.12; 128/205.27; 137/2; 137/467.5; 137/487.5

(57) **ABSTRACT**

A system for collecting an anaesthetic agent, having at least one anaesthetic gas scavenging system (AGSS) for receiving exhaust gas from a plurality of sources, the exhaust gas including the anaesthetic agent to be collected, each AGSS comprising at least one power source for providing suction of the exhaust gas from the plurality of sources under negative pressure, and a central collection system for receiving the exhaust gas, the central collection system comprising at least one collector for collecting the anaesthetic agent from the exhaust gas, wherein the at least one collector is configured to adsorb the anaesthetic agent from the exhaust gas. The central collection system may be configured to received the exhaust gases from the at least one AGSS, with the central collection system being located downstream of the at least one AGSS.

17 Claims, 14 Drawing Sheets

