MEDICAL GAS DELIVERY DEVICE

MEDICAL DEVICES
A garment configured with embedded tubes to deliver medical gas, such as oxygen to patients who are noncompliant with nasal cannula.

TECHNOLOGY TYPE
Class I/II
Pediatrics
Medical Gas Delivery

STAGE OF DEVELOPMENT
- Demonstrated oxygen saturation in front of the face is within accepted levels.
- Prototype in development.

IP PROTECTION
Nationalized PCT Pending in the United States and Europe
Medical gas delivery device
WO 2016/090161

FEATURES AND BENEFITS
- Decreases air flow interruption.
- Allows for greater patient movement.
- Increases patient comfort by reducing irritation to the mouth, nose, and face of the patient.
- Improves patient compliance by providing a novel oxygen delivery method for patients who resist traditional methods.
- Reduces risk of complications, such as the tubing wrapping around the patient.

TECHNOLOGY SUMMARY
Patients with diseases of the heart and lungs, such as pulmonary hypertension, may not comply with use of a face mask or nasal cannula for delivery of medical gas. Movement can also render medical gas delivery methods ineffective if a patient turns their head away from the gas source. The proposed medical gas delivery device could be incorporated with a hat, hood, pillow or other garment to provide supplemental oxygen and other gases near the face of patients who struggle with a face mask or nasal cannula. The device permits patients to move without interrupting the flow of medical gas. The initial hoody device delivers medical gas from a source near the waist through a tube that expels the medical gas near the patient’s face. This reduces the chance of air-flow disruption, common with long tubing, and improves patient compliance due to the increased comfort of the delivery device.

INVENTOR PROFILE
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Reference Number: U-5810

DATE UPDATED: 1/18/2018