MEDICAL GAS DELIVERY DEVICE

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

TECHNOLOGY TYPE
Pulmonology

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
Medical Gas Delivery Device
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LEARN MORE
Reference Number: U-5810

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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.

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.

INVENTOR PROFILE
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