Non-Confidential Description - PSU No. 3880
“Smart Tip LVAD Cannula”

Field of Invention/Keywords:
Biomedical, Devices, Medical

Inventors:
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Background
The technology employs wireless remote frequency, which incorporates pressure and volume adjustments unlike current continuous flow LVADs. It incorporates conductance catheter technology, a novel application not seen in existing LVAD’s. The Smart tip LVAD cannula provides better ventricular unloading based on physiological and circulatory needs during exercise, sleep, and other activities, greatly reducing abrupt blood flow and further heart failure.

Invention Description
It is an advanced LVAD cannula for long-term mechanical circulatory support for transplant and heart failure patients. The design is simple and versatile in nature and hence can be easily fitted to existing LVAD’s. The robust design facilitates streamlined blood flow while performing various tasks based on the circulatory needs of the individual at different situations. It directly minimizes ventricular wall collapse and suction events. It greatly reduces the need for unnecessary wires by operating on remote frequency technology (RF).

Commercial Potential
Should be of special interest to biomedical device manufacturers, LVAD manufacturers

Status