

Two Stages Axial-Centrifugal Flow Pump For Cavapulmonary Assistance(Fontan Assistance) - 1787

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Technology description

Market Opportunities

This invention has potential as a cardiopulmonary medical device to alleviate failing circulation subsequent to a Fontan procedure.

Technology Solution

Invention consists of an axial-centrifugal flow catheter pump. The rotor provides both an axial fluid flow and a centrifugal fluid flow and a motor operatively connected to the rotor.

Application area

Medical device; cardiopulmonary device; organ transplant; hypothermia; heart transplant; lung transplant; bypass; heat exchanger; surgery; artificial lung; surgery; blood perfusion

Advantages

This improves upon existing pumps to allow the patient to be mobile and comfort after the procedure. It is also a single pump that still creates satisfactory blood flow from the superior and inferior vena cava into the pulmonary artery.

Institution

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