

Even Perfusion pump-Artificial Lung for less thrombogenic and better performance - 1767

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Technology description

Market Opportunities

This invention has potential as a medical device in order to have an even dispersion of blood and a reduced area of stagnant blood flow.

Technology Solution

Invention is a blood oxygenator as an artificial lung or right ventricular assist device. It includes an integral pneumatic pump enclosed substantially within a housing unit. Inlet blood redirectors and outlet blood collectors are incorporated and together with the pneumatic pump, promote even perfusion of blood. This also eliminates areas of stagnation blood flow.

Application area

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

Advantages

Invention provides an improved method for promoting even blood perfusion with artificial lungs and right ventricular assist devices. This would decrease thrombosis and device failure (extreme cases).

Institution

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