



Implantable Medical Device with Internal Atrial Block Monitoring

Description

With an aging population, cost-effective management of chronic heart disease is a high priority. In particular pacemaker companies are increasingly interested in adding sensors and monitors to implantable devices to monitor for early warning signs of cardiac compromise. The ideal device will be implantable and include early warning of *impending* pulmonary edema or the appearance of an undesirable atrial fibrillation precursor by monitoring the stress of the left atrium on a continuous basis. Through early warning the cardiac patient can seek medical attention prior to a life threatening event, resulting in increased survival and reduced health care costs.

Features/Benefits

- Continuous monitoring ensures early warning of impending cardiac decomposition with a warning flag
- Monitors left and right atria- the left atrium has increased sensitivity for early stage diagnosis of inter-atrial block, atrial fibrillation, edema and heart disease
- Minimal hardware and software changes needed in existing devices
- Can be sized for implantation as a pacemaker or a defibrillator
- Monitoring device tracks the rotation of the vector corresponding to the P-wave cardiac signal
- Internally placed leads for better accuracy in measurement

Technology Status

Device has been produced and tested for accuracy and efficacy

IP Status

Patent pending

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