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System Of Epicardial Sensing And Pacing For Synchronizing A Whole Heart Assist Device

Tech ID: 32741 / UC Case 2019-924-2

BRIEF DESCRIPTION

See patent publication no. US20210128000A1. A network of electrodes configured to sense and/or pace the heart, wherein the network of electrodes are in contact with an epicardial surface of the heart, within a wrapping sleeve that assist the heart as a whole, wherein the network of electrodes sense the heart by quantifying intrinsic electrical activities of the heart, and wherein the network of electrodes pace the heart by inducing an electrical impulse to the heart to control its contractile activities. The network may be interfaced with a controller system, wherein the controller uses spatial and temporal electrical activities of the heart muscles to generate electrical impulse to synchronize the wrapping sleeve around the heart with the heart. Also disclosed is a system configured to construct space-time mapping of cardiac electrical activities and/or propagation, and sensing effects of a first assist event of a prior beat and controlling a second assist event.

FULL DESCRIPTION

SUGGESTED USES

ADVANTAGES

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Published Application	20210128000	05/06/2021	2019-924

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OTHER INFORMATION

CATEGORIZED AS

- » Medical
 - » Devices
 - » Disease: Cardiovascular and Circulatory System

RELATED CASES

2019-924-2

