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The Director

of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this United States

Patent

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Andrei Iancu

DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Ortega et al.

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(54) **VENTRICULAR PACING IN CARDIAC-RELATED APPLICATIONS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(58) **Field of Classification Search**
None
See application file for complete search history.

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(57) **ABSTRACT**

Various aspects of the present disclosure are directed toward an asynchrony index that is related to data of a subject's heart. The asynchrony index includes intra-ventricular or inter-ventricular electrical asynchrony data. The intra-ventricular or inter-ventricular electrical asynchrony data can be specific to a certain subject, and indicative of a different conditions specific to that subject.

20 Claims, 33 Drawing Sheets