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**Li et al.**

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(54) **CABLE CONFIGURATIONS FOR A MEDICAL DEVICE**

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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 1019 days.

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(52) **U.S. Cl.**

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(57) **ABSTRACT**

Techniques are disclosed related to cables that may be used within a medical device. According to one example, a cable may comprise multiple wires. Each wire may be formed of a biocompatible beta titanium alloy having an elastic modulus ranging from 30 GigaPascals (GPa) to 90 GPa and comprising at least two elements selected from a group of titanium, molybdenum, niobium, tantalum, zirconium, chromium, iron and tin. The cable may be heated to a stress-relieve temperature of the beta titanium alloy to allow the cable to retain a desired configuration while remaining ductile. The cable may be included within a medical device, such as a medical electrical lead.

(58) **Field of Classification Search**

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**A61B 17/1215**; **A61B 17/1219**; **H01B 7/048**  
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See application file for complete search history.

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**50 Claims, 22 Drawing Sheets**

