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Parker

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(54) **IMPLANTED PULSE GENERATORS WITH REDUCED POWER CONSUMPTION VIA SIGNAL STRENGTH/DURATION CHARACTERISTICS, AND ASSOCIATED SYSTEMS AND METHODS**

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(58) **Field of Classification Search**
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See application file for complete search history.

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(57) **ABSTRACT**

Implanted pulse generators with reduced power consumption via signal strength-duration characteristics, and associated systems and methods are disclosed. A representative method for treating a patient in accordance with the disclosed technology includes receiving an input corresponding to an available voltage for an implanted medical device and identifying a signal delivery parameter value of an electrical signal based on a correlation between values of the signal delivery parameter and signal deliver amplitudes. The signal deliver parameter can include at least one of pulse width or duty cycle. The method can further include delivering an electrical therapy signal to the patient at the identified signal delivery parameter value using a voltage within a margin of the available voltage.

69 Claims, 7 Drawing Sheets

