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(54) **NON-INVASIVE TISSUE CHARACTERIZATION SYSTEM AND METHOD**

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382/128

See application file for complete search history.

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(57) **ABSTRACT**

One embodiment of the present system and method is directed to the identification of tissues within a vascular object by analyzing ultrasound data collected from the vascular object by non-invasive scans. By identifying and characterizing types of tissue from ultrasound data, an assessment can be made about the health condition of a patient without an invasive procedure. Other applications of the present system will also be appreciated including identifying other types of tissues.

25 Claims, 5 Drawing Sheets

