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(54) Title: IMPLANTABLE MEDICAL DEVICE WITH MECHANICAL STRESS SENSOR

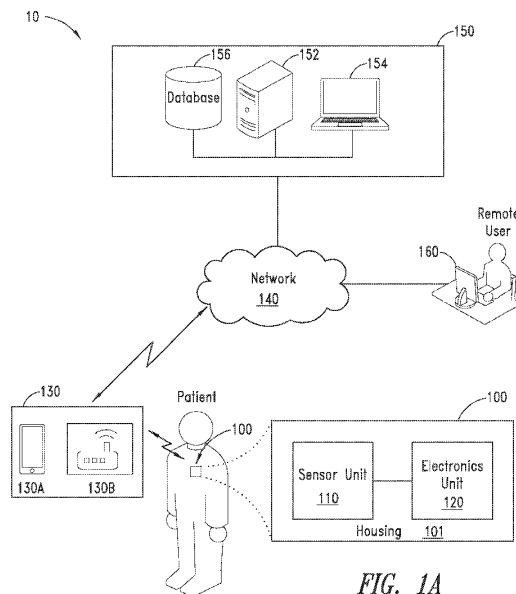


FIG. 1A

(57) Abstract: Disclosed are devices, systems, and methods for *in vivo* monitoring of internal mechanical stress associated with physiological phenomena of an internal body structure, such as the heart, lungs and/or gastrointestinal tract, from within the host. The disclosed devices, systems, and methods include an *in vivo* mechanical stress sensor implantable in the host's body.

[Continued on next page]

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