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US 20100008631 A1 US 20090159283 A1
US 20020119271 A1
US6392151B1
US7954560B2

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(54) Title of the Invention: **Managing strain on a downhole cable**
Abstract Title: **Managing strain on a downhole cable**

(57) Techniques for managing strain on a downhole cable, such as a slickline or wireline, include a wire coupled with a communication line, such as a fiber optic cable or metallic (or non-metallic) conductor. In one example, a downhole cable includes a wire to support a downhole tool string; and a communication line non-linearly coupled with the wire, the communication line sized to communicate instructions, that include at least one of logic or data to the downhole tool, and elongate based on an axial force that acts on the downhole cable.

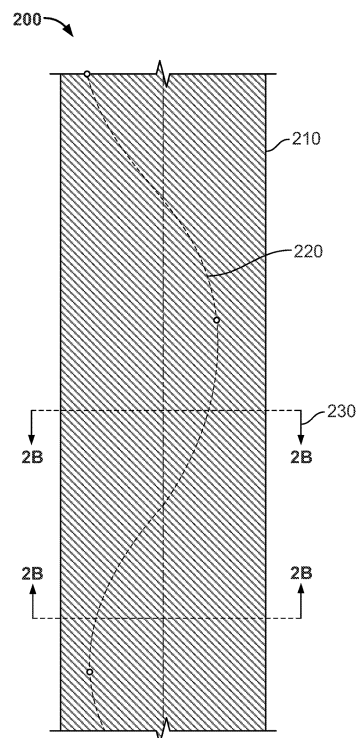


FIG. 2A