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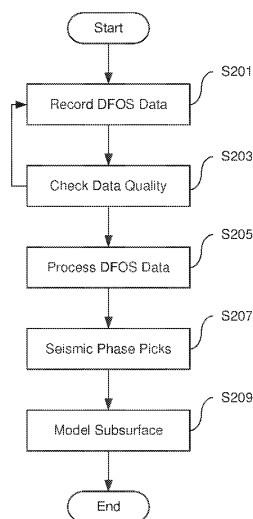


Fig. 2

(57) Abstract: A method of generating a geotechnical survey of a target area includes measuring DFOS data in an optical fiber located within a sensing distance of the target area and determining subterranean characteristics of the target area based on the measured DFOS data. A geotechnical surveying system may include an optical fiber and a DFOS device and a processor configured to calculate geotechnical data based on DFOS data.

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