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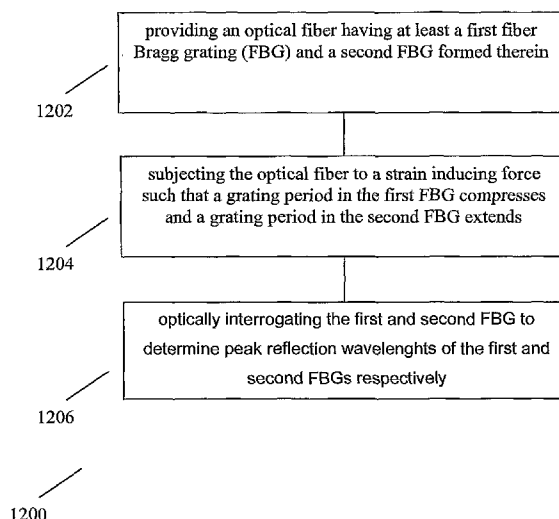
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(54) Title: FIBER BRAGG GRATING SENSOR



(57) Abstract: An optical fiber strain sensor, a method of fabricating the same, and a method of sensing strain (1200). The method of strain sensing comprises providing an optical fiber having at least a first fiber Bragg grating (FBG) and a second FBG formed therein (1202); subjecting the optical fiber to a strain inducing force such that a grating period in the first FBG compresses and a grating period in the second FBG extends (1204); and optically interrogating the first and second FBG to determine peak reflection wavelengths of the first and second FBGs respectively (1206), whereby a separation between the peak reflection wavelengths of the first and second FBGs is representative of the strain induced.

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