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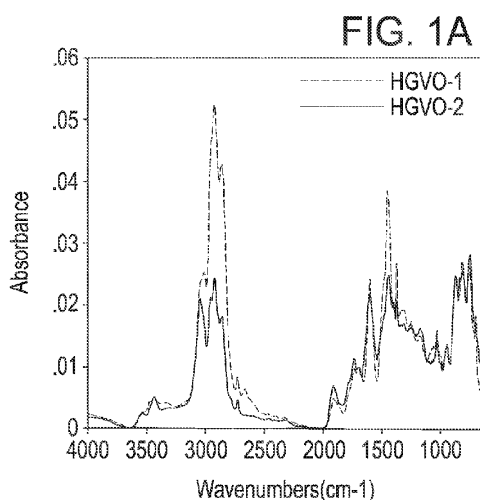
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(54) **Title:** PITCH COMPOSITIONS AND METHODS RELATED THERETO



(57) **Abstract:** Pitch compositions having controlled pitch composition properties and methods for their production and use. Pitch properties are predicted based on infrared structural parameters and two or more pitch compositions may be blended to achieve desired pitch properties, including softening point, microcarbon residue, hydrogen to carbon ratio, and percent pitch volatiles. Predicting these properties can aid in, among other things, end-use optimization of the production of spinnable pitches for carbon fibers, mesocarbon microbeads, matrixes for carbon/carbon composites, and other pitch-derived carbon products.

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