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(54) Title: MESOPHASE PITCH COMPOSITIONS FROM AROMATIC FEEDSTOCKS, METHODS OF MAKING THE SAME, AND USES THEREOF

(57) Abstract: Mesophase pitch compositions may be obtained by subjecting isotropic pitch compositions to heat-treatment. Methods for producing mesophase pitch compositions may comprise heat treating an isotropic pitch composition comprising two or more aromatic classes linked with at least one methylene bridge between each aromatic classes, at a temperature of about 300°C to about 500°C to produce a mesophase pitch composition having a weight average molecular weight of about 300 g/mol to about 2,000 g/mol, a softening point of about 100°C or greater, a mesophase content of about 0.01 vol% to 100 vol%, based on the total volume of the mesophase pitch composition, and a micro carbon residue of about 25 wt% or greater, based on the total weight of the mesophase pitch composition; wherein heat treating induces cyclization between at least two of the two or more aromatic classes to form one or more 5-membered rings and/or 6-membered rings.



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