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(54) **GAS ADSORPTION AND GAS MIXTURE SEPARATIONS USING CARBORANE-BASED MOF MATERIAL**

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(58) **Field of Classification Search** 423/220, 423/226, 282, 283

See application file for complete search history.

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(57) **ABSTRACT**

A method of separating a mixture of carbon dioxide and a hydrocarbon gas using a metal-organic framework (MOF) material having a three-dimensional carborane ligand structure.

10 Claims, 3 Drawing Sheets

