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(54) Title: SEPARATION OF CARBON DIOXIDE FROM METHANE UTILIZING ZEOLITIC IMIDAZOLATE FRAMEWORK MATERIALS

(57) Abstract: The present invention relates to the selective separation of carbon dioxide ('CO₂') from methane ('CH₄') in streams containing both carbon dioxide and methane utilizing a zeolitic imidazolate framework ('ZIF') material. Preferably, the stream to be separated is fed to the present process in a substantially gaseous phase. In preferred embodiments, the current invention is utilized in a process to separate carbon dioxide from natural gas streams preferably for sequestration of at least a portion of the carbon dioxide present in the natural gas.



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