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(54) Title: A SEPARATION DEVICE AND COMPOSITE MEMBRANE

(57) Abstract: The present invention relates to a composite membrane comprising at least one 2D material such as graphene oxide, graphene nanoplatelets or a mixture thereof, and an inorganic porous material such as gypsum, silicates and alumina. The composite membrane described herein may be housed within a separation device which may be used for selective permeation of one or more gaseous compounds.



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