

Title (en)

DIAPHRAGM REACTOR FOR CONVERTING GASEOUS BASE MATERIALS

Title (de)

MEMBRANREAKTOR FÜR DIE UMSETZUNG VON GASFÖRMIGEN AUSGANGSSSTOFFEN

Title (fr)

REACTEUR A DIAPHRAGME POUR LA TRANSFORMATION DE MATIERES PREMIERES GAZEUSES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9527690A1] For converting substantially gaseous base materials into at least one product which is substantially in a vapour state and for increasing the yield of the reaction, the invention proposes shifting the equilibrium of the reaction in the direction of the product(s) by removing at least one product from the reaction mixture by diaphragm permeation. A typical example thereof is the synthesis of methanol which generally occurs according to the following reaction equation: (1), in which X can have a value of between 0 and 1. In this respect, the gaseous educts are converted into methanol in the vapour state and possibly water. The resultant products are removed by diaphragm permeation in order to shift the equilibrium of the reaction in the direction of the product(s).

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