

Title (en)
FUEL SYNTHESIS

Title (de)
BRENNSTOFFSYNTHESEVERFAHREN

Title (fr)
SYNTHESE DE COMBUSTIBLE

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Priority

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Abstract (en)
[origin: WO0170652A1] A method of transforming a normally gaseous composition containing carbon dioxide and at least one normally gaseous hydrocarbon into a product stream containing at least one normally liquid hydrocarbon; the method comprising the steps of feeding the composition into a reactor including a first electrode means, a second electrode means and at least one layer of a normally solid dielectric material positioned between the first and the second electrode means; submitting the composition within the reactor in the presence of a normally solid catalyst to a dielectric barrier discharge, wherein the normally solid catalyst is a member selected from the group of zeolites, modified zeolites and zeolite-like materials, and wherein the normally solid catalyst has an at least partially crystalline solid structure with at least one 10-ring channel or with at least one 12-ring channel; and controlling the dielectric barrier discharge to convert the normally gaseous composition into the product stream.

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