



(12) PATENT ABSTRACT

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- (54) CONVERSION OF SYNGAS TO DIMETHYL ETHER
 (71) MOBIL OIL CORP.
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 (43)
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 (74) PO
 (57) Claim

1. A process for converting synthesis gas into dimethyl ether which comprises contacting synthesis gas at a temperature of from 232 to 399 °C with a catalyst composition of coprecipitated Cr, Cu and Zn components and of an acidic dehydrating component, in which the atomic ratio Cr/(Cu + Zn) is from 0.1 to 1.0, and subsequently regenerating the catalyst composition by contacting it with an oxygen-containing gas at a temperature of from 38 to 538°C.