

Title (en)

CHROMIUM-BASED CATALYSTS AND PROCESSES FOR CONVERTING HYDROCARBONS TO SYNTHESIS GAS

Title (de)

CHROM-ENTHALTENDE KATALYSATOREN UND VERFAHREN ZUR KONVERTIERUNG VON KOHLENWASSERSTOFFEN ZU SYNTHESGAS

Title (fr)

CATALYSEUR A BASE DE CHROME ET PROCEDES DE CONVERSION D'HYDROCARBURES EN GAZ DE SYNTHESE

Publication

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Application

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Priority

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- US 70370100 A 20001101

Abstract (en)

[origin: WO0160740A2] Processes for the catalytic conversion of hydrocarbons to carbon monoxide and hydrogen employing new chromium-based catalysts are disclosed. One highly active and selective catalyst system, providing greater than 95 % CH₄ conversion, and 97-98 % selectivity to CO and H₂, is a chromium-containing catalyst consisting of a CoCr₂O₄ cubic spinel precursor dispersed in a chromium oxide matrix. Some other preferred catalysts compositions comprise nickel-chromium containing and rare earth-chromium containing compounds.

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IPC 8 full level

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