

12760 K/06 BRITISH PETROLEUM PLC 19.11.81-GB-034856 (+022174) (26.01.83) 801, 23 801, 29 06 C07c-01/04	A41 E18 H04	BRPE 17.07.81 *EP--70.690	A(1-D13) E(10-J2B3) H(4-E5, 4-F2E) N(2, 3, 3-G) 137
Hydrocarbon prodn. from synthesis gas - using catalyst contg. gallium and/or indium oxide and other metal oxide			ThO ₂ , drying the mixt. and calcining at 300°C. A 1:1 mixt. of CO and H ₂ was passed over the catalyst at 325°C (GHSV 2000). The conversion was 9% with 59% selectivity for hydrocarbons, including 27.3% C ₁ , 36.9% C ₄ and 24.8% C ₅ +. (16pp367).
C83-012332	D/S: E(BE DE FR GB IT NL SE)		(E) ISR: GB1520996 DS-921565 DS1002746 GB2053960
Conversion of synthesis gas to hydrocarbons is carried out using a catalyst comprising (a) Ga and/or In oxide and (b) an oxide of at least one additional metal selected from Group (VIII) metals and the B-group elements of Groups (I)-(VII), including lanthanides and actinides.			
<u>DETAILS</u> Component (b) may be an oxide of Cu, Zn, Sc, Y, La, Ti, Zr, Hf, Cr, Mo, W, Mn, Re, Ru, Co, Rh, Ir, Ni, Pd, Pt, Ce, Tb, U and/or Th, esp. Ce, Th or U. The yield of aromatics can be increased by incorporating a crystalline aluminosilicate with a SiO ₂ /Al ₂ O ₃ ratio of more than 5:1 in the catalyst. The reaction may be effected at 200-800 (pref. 300-600)°C and 1-1000 (pref. 30-300) bar.			
<u>EXAMPLE</u> A catalyst was prepd. by mixing slurries of Ga ₂ O ₃ and			EP--70690