SINT- 23.11.84 E(10-E4E1) N(2-D, 3-D, 5-A) 86-155804/24 E17 *WO 8603-190-A SINTEF (ONSA/) 23.11.84-NO-004675 (05.06.86) C07c-31/04 SOLVENT Lig. phase produ. of methanol from hydrogen and carbon mon:oxide Preid. (III) are decalin, p-xylene, dioxan, n-butyl - using solvent mixt, also contg. non-polar organic solvent stearate, cyclohexane and toluene. E(AT BE CH DE FR GB IT LU NL SE) N(AU BR DK FI JP C86-066629 US) CATALYST The system pref. comprises LiOMe or NaOEt as (I), and pref. copper chromite as (II). Full Patentees: Sintef; O.T. Onsager (US only) MeOH is prepd. in a liq. reaction medium by reaction of CO EXAMPLE A 1:2 CO/H₂ mixt. was reacted over NaOMe (20 mmol) with H, in the presence of a catalyst system comprising an and a Cu catalyst (NO Applicn. 81.2279) in 50 ml of a solvent alkali metal alcoholate (I) and a copper catalyst (II). contg. 15 vol. 8 MeOH and 85 vol. 8 cyclohexane. McOH prodn. The novelty is that the liq. reaction medium in addn. to was 156 g/dm3/hr. (control MeOH solvent only 81 g/dm3/hr.): MeOH and HCO, Me also contains at least 50% by vol. of a while selectivity to MeOH was 94% (control, 61%).(15pp478 non-polar organic solvent (III) of dielectric constant lower than that of pure MeOH at the same temp. DAHDwgNo0/0). (E)ISR: WO8400360 DE2426108 EP--34011 AU8167120 AT---3536 ADVANTAGE CA1157053 AU-539503 DE-809803 EP-117944 AU8321878 Incorporating (III) into the reaction mixt. increases J59116238 DE3025561 GB2055607 FR2460990 J56018925 the activity of the alcoholate/heterogeneous Cu catalyst US4312741 FR2490668 US4413063 system. PREFERRED CONDITIONS Reaction is at <240 (pref. 70-150)° C and <100 (esp. 5-60) bar, with mol. ratio CO:H2 of 1:1-8. WO8603190-A