

**PCT**WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C01B 3/40	A1	(11) International Publication Number: WO 99/37580 (43) International Publication Date: 29 July 1999 (29.07.99)
(21) International Application Number: PCT/EP99/00324 (22) International Filing Date: 19 January 1999 (19.01.99) (30) Priority Data: 98300389.8 20 January 1998 (20.01.98) EP (71) Applicant (for all designated States except US): SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. [NL/NL]; Carel van Bylandtlaan 30, NL-2596 HR The Hague (NL). (72) Inventors; and (75) Inventors/Applicants (for US only): MERCERA, Patrick, Dennis, Lawrence [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL). PIETERSE, Coen, Willem, Johannes [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL). SCHADDENHORST, David [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL). SCHOONEBEEK, Ronald, Jan [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL). HUISMAN, Hans, Michiel [NL/NL]; Badhuisweg 3, NL-1031 CM Amsterdam (NL).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>
(54) Title: CATALYST SUITABLE FOR THE PREPARATION OF HYDROGEN AND CARBON MONOXIDE FROM A HYDRO- CARBONACEOUS FEEDSTOCK (57) Abstract A catalyst comprising a catalytically active metal, selected from Ru, Rh, Os and Ir, associated with at least one inorganic metal cation or precursor thereof, wherein the inorganic metal cation or precursor thereof is present in intimate association supported on or with the catalytically active metal, a process for the preparation of the catalyst, and a process for the preparation of carbon monoxide and/or hydrogen from a hydrocarbonaceous feedstock using the catalyst.		



G00002



162162