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WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



200000151-1
1999 1999

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07C 29/60, 31/20, 45/52, 47/22	A1	(11) International Publication Number: WO 99/05085 (43) International Publication Date: 4 February 1999 (04.02.99)
(21) International Application Number: PCT/EP98/04982 (22) International Filing Date: 20 July 1998 (20.07.98) (30) Priority Data: 97305508.0 23 July 1997 (23.07.97) EP (71) Applicant: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. [NL/NL]; Carel van Bylandtlaan 30, NL-2596 HR The Hague (NL). (72) Inventors: DRENT, Eit; Badhuisweg 3, NL-1031 CM Am- sterdam (NL). JAGER, Willem, Wabe; 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, GE, GH, GM, HR, HU, ID, IL, 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, 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>
(54) Title: HYDROGENOLYSIS OF GLYCEROL (57) Abstract A process for the catalytic hydrogenolysis of glycerol in the presence of a homogeneous catalyst that is based on a platinum group metal or a compound of a platinum group metal, an anion source, and a metal-complexing compound of the formula $Q^1Q^2MQ^3$ (I) or $Q^1Q^2MQMQ^3Q^4$ (II) wherein M represents phosphorus, arsenic or antimony, Q represents a group that is covalently bonded to both M's and having at least two atoms in the bridge and Q^1 to Q^4 are independently similar or dissimilar optionally substituted hydrocarbyl groups or Q^1 and Q^2 and/or Q^3 and Q^4 represent similar or dissimilar optionally substituted hydrocarbylene groups.		