



[12] Patent

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[21] Application No.: GCC/P/2001/1229 [22] Filing Date: 14/03/2001 [30] Priority: [31] Priority No. [32] Priority date [33] State 0006384.2 16/03/2000 GB [72] Inventors: 1- Gavin Thomas Brinmore, 2- David Charles Griffiths, 3- Brian Edward Messenger, 4- Ian Allan Beattie Reid [73] Owner: BP Chemicals Limited, Britannic House, 1 Finsbury Circus London, EC2M 7BA, United Kingdom [74] Agent: Hasan AL-Mulla	[51] Int. Cl. ⁷ : B01J 23/00, 23/16; C07C 5/333 [56] Cited Documents: - US 3758609 A (CICHOWSKI) 11 September 1973 - US 3810954 A (BRENT) 14 May 1974 - US 3821324 A (BERTUS) 28 June 1974

[54] PROCESS FOR THE PRODUCTION OF OLEFINS

[57] Abstract: A process for the production of an olefin from a hydrocarbon, which process comprises: contacting the hydrocarbon and a molecular oxygen-containing gas with a catalyst under auto-thermal conditions sufficient to produce the olefin, wherein the catalyst comprises a component (a) and a component (b) wherein component (a) is at least one metal selected from the group consisting of Group IIIA, Group IV A, Group V A and the transition metals and component (b) is at least one transition metal wherein said catalyst (i) comprises palladium and/or platinum at a total concentration of 0 to 1 wt% inclusive or (ii) is substantially free of palladium and/or platinum added independently of the other metal components. Preferred catalysts comprise rhodium/tin, rhodium copper and cobalt/tin.

No. of claims: 14

No. of figures: 1

