



[12] Patent

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[21] Application No.: GCC/P/2001/1336 [22] Filing Date: 01/05/2001 [30] Priority: [31] Priority No. [32] Priority date [33] State 0010693.0 03/05/2000 GB [72] Inventors: 1- Dereke Alan Colman, 2- Trevor John Hesketh, 3- Ian Allan Beattie Reid, 4- William Terence Woodfin [73] Owner: BP Chemicals Limited, Britannic House, 1Finsbury Crrcus London, EC2M 7BA, United Kingdom [74] Agent: Hasan AL-Mulla	[51] Int. Cl. ⁷ : C07B 41/00; C07C 5/48; C10G 11/22 [56] Cited Documents: - DE 1143295 A (METALLGESELLSCHFT AKTIENGESELLSCHAFT) 07 February 1963 - WO 1994/04632 A (BP CHEMICALS LIMITED) 03 March 1994

[54] PROCESS FOR THE CATALYTIC OXIDATION OF HYDROCARBONS

[57] Abstract: A process for the oxidation of a hydrocarbon, said process comprising partially oxidising in a reaction zone, a mixture comprising a hydrocarbon and an oxygen-containing gas in the presence of a catalyst which is capable of supporting oxidation of the hydrocarbon, wherein prior to said partial oxidation, said mixture comprising the hydrocarbon and the oxygen-containing gas is passed through a heat exchanger. Preferably the heat exchanger is a compact heat exchanger. Prior to passage through the heat exchanger a mixture of hydrocarbon and oxygen-containing gas may be passed through a baffle zone which comprises a housing containing at least one baffle plate. In a preferred embodiment, the invention relates to a process for the production of an olefin such as ethylene by the catalytic oxidative dehydrogenation of a hydrocarbon or mixture of hydrocarbons.

No. of claims: 10

No. of figures: 1

