



[12] Patent

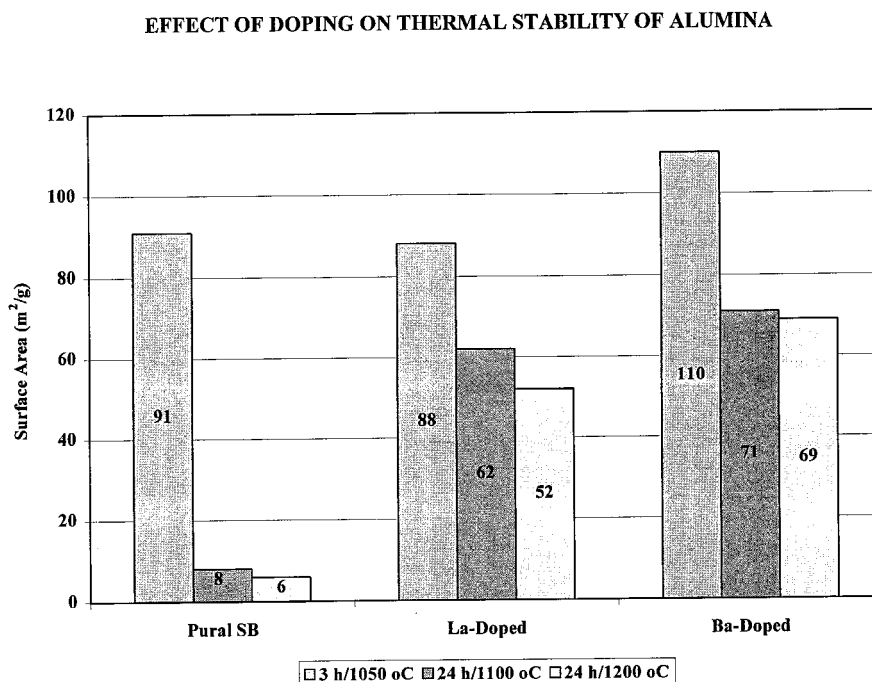
[11] Patent No.: GC 0000273	Number of the Decision to Grant the Patent: 6/554
[45] Date of Publishing the Grant of the Patent: 01/11/2006 6/2006	Date of the Decision to Grant the Patent: 02/05/2006
[21] Application No.: GCC/P/2001/1222 [22] Filing Date: 13/03/2001 [30] Priority: [31] Priority No. [32] Priority date [33] State 09/528.163 17/03/2000 US [72] Inventors: 1- Alan H. Singleton, 2- Rachid Oukaci [73] Owner: Sasol Technology (UK) Limited, Purdie Building, Noorth Haugh, St Andrews, KY 16 9ST, Scotland, United Kingdom [74] Agent: Suleiman Ibrahim Al-Ammar	[51] Int. Cl. ⁷ : B01J 23/78, 23/83, 23/89, 21/04, 35/08; C07C 1/04; C10G 2/00 [56] Cited Documents: - WO 99 61550 A (ENERGY INT CORP.) 02 December 1999 - EP 0130835 A (HITACHI LTD) 09 January 1985 - US 5939350 A (OUKACI RACHID et al.) 17 August 1999 - "Influence of Lanthanum on the Surface Structure and CO Hydrogenation Activity of Supported Cobalt Catalysts" (LEDFORD JEFFREY S et al.) Database Compendex 'Online! Engineering Information Inc., New York, NY, US, 07 September 1989

[54] HIGHLY ACTIVE FISCHER-TROPSCH SYNTHESIS USING DOPED, THERMALLY STABLE CATALYST SUPPORT

[57] Abstract: A method of conducting hydrocarbon synthesis and a highly stable cobalt on alumina catalyst therefore. The inventive method comprises the step of reacting a synthesis gas in a slurry bubble column reactor in the presence of the catalyst. The catalyst comprises a γ -alumina support doped with an amount of lanthana oxide, barium oxide, or a combination thereof effective for increasing the thermal stability of the catalyst in the slurry bubble column reacting system while maintaining or increasing the activity of the catalyst.

No. of claims: 30

No. of figures: 2



Note: Any interested individual may, within 3 months of publication of the grant, file objection thereof with the Grievance Committee after payment of grievance fees.