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(71) Applicant (for all designated States except US): **SK INNOVATION CO., LTD.** [KR/KR]; 99, Seorin-dong, Jongro-gu, Seoul 110-110 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KWON, Yong Tak** [KR/KR]; 103-701, Hanwa Gumeegreen Apt., Gwanpyeong-dong, Yuseong-gu, Daejeon 305-741 (KR). **KIM, Tae Jin** [KR/KR]; 1008-801, Daedeok Techno Valley 10 Danji Apt., Gwanpyeong-dong, Yuseong-gu, Daejeon 305-793 (KR). **CHUNG, Young Min** [KR/KR]; 102-903, Cheonggu Narae Apt., Jeonmin-dong, Yuseong-gu, Daejeon 305-729 (KR). **KIM, Ok Youn** [KR/KR]; 503-1503,

Sindong-A Pamillie, Gwanpyeong-dong, Yuseong-gu, Daejeon 305-745 (KR). **OH, Seung Hoon** [KR/KR]; 3-1408, Sunkyung Apt., Daechi 1-dong, Gangnam-gu, Seoul 135-836 (KR).

(74) Agent: **LEE & PARK**; 6th Fl., Changsang Bldg., 1543-12, Seocho 3-dong, Seocho-gu, Seoul 137-872 (KR).

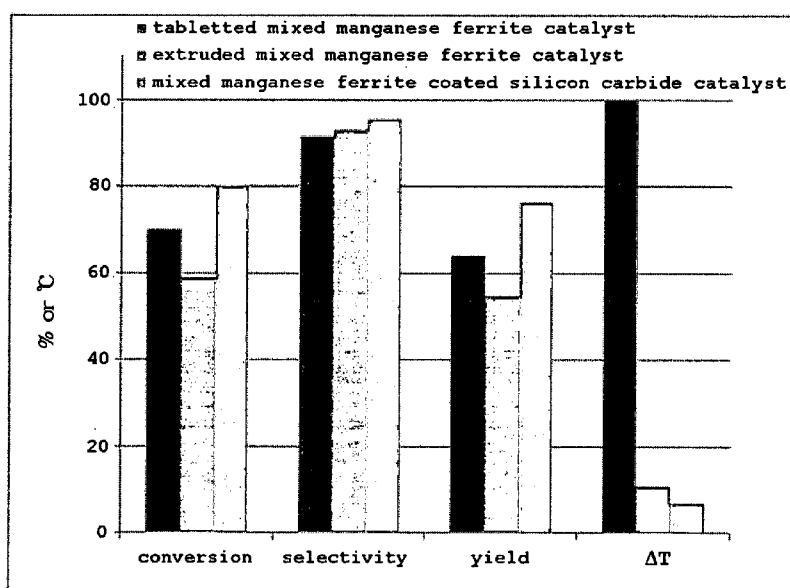
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(54) Title: MIXED MANGANESE FERRITE COATED CATALYST, METHOD OF PREPARING THE SAME, AND METHOD OF PREPARING 1,3-BUTADIENE USING THE SAME

Fig. 1



(57) Abstract: This invention relates to a method of preparing a mixed manganese ferrite coated catalyst, and a method of preparing 1,3-butadiene using the same, and more particularly, to a method of preparing a catalyst by coating a support with mixed manganese ferrite obtained by co-precipitation at 10 ~ 40°C using a binder and to a method of preparing 1,3-butadiene using oxidative dehydrogenation of a crude C4 mixture containing n-butene and n-butane in the presence of the prepared catalyst. This mixed manganese ferrite coated catalyst has a simple synthetic process, and facilitates control of the generation of heat upon oxidative dehydrogenation and is very highly active in the dehydrogenation of n-butene.



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