

Title (en)

HIGHLY POROUS FOAM CERAMICS AS CATALYST CARRIERS FOR THE DEHYDROGENATION OF ALKANES

Title (de)

HOCHPORÖSE SCHAUMKERAMIKEN ALS KATALYSATORTRÄGER ZUR DEHYDRIERUNG VON ALKANEN

Title (fr)

MOUSSES CÉRAMIQUES TRÈS POREUSES UTILISÉES COMME SUPPORTS CATALYTIQUES POUR DÉSHYDROGÉNER DES ALCANES

Publication

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Application

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Abstract (en)

[origin: CA2733278A1] The invention relates to a material which is suitable as a carrier for catalysts in alkane dehydrogenations and in oxidative alkane hydrogenations, and which is produced as an oxidic or non-oxidic ceramic foam, and which can contain the substances aluminum oxide, calcium oxide, silicon dioxide, tin oxide, zirconium oxide, calcium aluminate, zinc aluminate, silicon carbide, and boron nitride in combination, and which is impregnated with one or more suitable catalytically active materials, whereby the flow resistance of the catalyst is substantially lowered, the accessibility of the catalytically active material is significantly improved, and the thermal and mechanical stability of the material is increased. The invention also relates to a method for producing the material and to a method for alkane dehydrogenation using the material according to the invention.

IPC 8 full level

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C-Set (source: EP US)

1. **C04B 38/0615 + C04B 35/00 + C04B 38/0058 + C04B 38/0096**
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3. **C07C 5/3337 + C07C 15/46**
4. **C07C 5/3337 + C07C 11/167**
5. **C07C 5/3337 + C07C 11/08**
6. **C07C 5/48 + C07C 11/08**
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