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(54) Title (EN): NI-BASED CATALYSTS ON INORGANIC SUPPORTS AND USE THEREOF IN THE SELECTIVE OXIDATION OF PROPYLENE IN GASEOUS PHASE

(54) Title (FR): CATALYSEURS À BASE DE NI SUR SUPPORTS INORGANIQUES ET LEUR UTILISATION DANS L'OXYDATION SÉLECTIVE DE PROPYLÈNE EN PHASE GAZEUSE

(54) Title (ES): CATALIZADORES BASADOS EN Ni SOBRE SOPORTES INORGÁNICOS Y SU USO EN LA OXIDACIÓN SELECTIVA DE PROPILENO EN FASE GAS

(57) Abstract:

(EN): The present invention relates to a catalytic system comprising an inorganic support and nickel nanoparticles dispersed on the inorganic support, wherein the catalytic system does not have noble metals and the nickel is in a proportion of 0.5-5% by weight with respect to the total weight of the catalyst. The invention also relates to a method for preparing the catalytic system of the invention, and to the use of same in reactions for the selective oxidation of propylene into propylene oxide in gaseous phase.

(FR): La présente invention concerne un système catalytique, qui comprend un support inorganique et des nanoparticules de nickel réparties sur le support inorganique, le système catalytique est dépourvu de métaux nobles et le nickel est compris dans une proportion comprise entre 0,5-5% en poids par rapport au poids total du catalyseur. La présente invention concerne, en outre, un procédé de préparation du système catalytique de la présente invention et l'utilisation de celui-ci dans des réactions d'oxydation sélective de propylène en oxyde de propylène en phase gazeuse.

(ES): La presente invención se refiere a un sistema catalítico, que comprende un soporte inorgánico y nanopartículas de níquel dispersas sobre el soporte inorgánico, donde el sistema catalítico carece de metales nobles y el níquel se encuentra en una proporción comprendida entre 0.5-5 % en peso con respecto al peso total de catalizador. La presente invención se refiere, además, a un procedimiento para la preparación del sistema catalítico de la presente invención y al uso del mismo en reacciones de oxidación selectiva de propileno a óxido de propileno en fase gas.

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