

Title (en)
SILVER CATALYST SYSTEM HAVING A REDUCED PRESSURE DROP FOR THE OXIDATIVE DEHYDROGENATION OF ALCOHOLS

Title (de)
SILBER-KATALYSATORSYSTEM MIT VERRINGERTEM DRUCKABFALL ZUR OXIDATIVEN DEHYDRIERUNG VON ALKOHOLEN

Title (fr)
SYSTÈME DE CATALYSEURS À BASE D'ARGENT À DÉPRESSURISATION RÉDUITE POUR LA DÉSHYDROGÉNATION OXYDATIVE DES ALCOOLS

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Abstract (en)
[origin: WO2018153736A1] The invention relates to a silver-containing catalyst system for producing aldehydes and/or ketones by oxidative dehydrogenation of alcohols, in particular oxidative dehydrogenation of methanol to produce formaldehyde, the catalyst system comprising a first catalyst layer and a second catalyst layer, the first catalyst layer consisting of a silver-containing material in the form of bundles, nets or meshes having a weight per unit area of 0.3 to 10 kg/m² and a wire diameter of 30 to 200 µm, and the second catalyst layer consisting of a silver-containing material in the form of granules having an average particle size of 0.5 to 5 mm, and the two catalyst layers being in direct contact with each other. The invention also relates to a corresponding method for producing aldehydes and/or ketones, in particular formaldehyde, by oxidative dehydrogenation of corresponding alcohols using a silver-containing catalyst system.

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