Title (en)

METHOD FOR STARTING A GAS PHASE OXIDATION REACTOR THAT CONTAINS A CATALYTICALLY ACTIVE SILVER-VANADIUM OXIDE BRONZE

Title (de)

VERFAHREN ZUM ANFAHREN EINES GASPHASENOXIDATIONSREAKTORS, DER EINE KATALYTISCH AKTIVE SILBER-VANADIUMOXID-BRONZE ENTHÄLT

Title (fr)

PROCÉDÉ DE MISE EN ROUTE D'UN RÉACTEUR D'OXYDATION EN PHASE GAZEUSE CONTENANT UN BRONZE À BASE D'ARGENT ET D'OXYDE DE VANADIUM CATALYTIQUEMENT ACTIF

Publication

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Application

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Abstract (en)

[origin: WO2009124947A1] The invention relates to a method for starting a gas phase oxide reactor that contains a bed of a first catalyst, the active mass thereof containing a catalytically active silver vanadium oxide bronze, and at least one bed of a second catalyst, the catalytically active mass thereof containing vanadium pentoxide and titanium dioxide, and said reactor can be tempered by means of a heat transfer medium. In the operational mode, a gas flow that contains a charge Cop of a hydrocarbon and molecular oxygen passes through the reactor via the bed of the first and the second catalyst, the heat transfer medium being at a temperature Top. In order to start, a) a gas flow containing an initial charge Co that is lower than Cop is guided through the reactor at an initial temperature To of the heat transfer medium that is lower than Top and b) the temperature of the heat transfer medium is brought to Top and the charge of the gas flow is brought to Cop. Said method combines a short starting time without exceeding emission or quality specifications, with a long catalyst service life, a high yield and a low formation of axillary products.

IPC 8 full level

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