

Title (en)  
VANADIUM PHOSPHORUS OXIDE CATALYST HAVING A THERMALLY CONDUCTIVE SUPPORT

Title (de)  
VANADIUM-PHOSPHOROXID-KATALYSATOR MIT EINEM THERMISCH LEITFÄHIGEN TRÄGER

Title (fr)  
CATALYSEUR A BASE D'OXYDE DE PHOSPHORE ET DE VANADIUM SUR SUPPORT THERMOCONDUCTEUR

Publication  
**EP 1171237 A1 20020116 (EN)**

Application  
**EP 00923307 A 20000414**

Priority  
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Abstract (en)  
[origin: WO0062926A1] Beta-silicon carbide particles impregnated with a vanadyl pyrophosphate oxidation catalyst are prepared by forming a heterogeneous reaction mixture of suspended vanadium (IV) phosphate (via hydrochloric acid digestion of V<sub>2</sub>O<sub>5</sub> and H<sub>3</sub>PO<sub>4</sub> in an aqueous solvent or via heating vanadium pentoxide with at least one substantially anhydrous unsubstituted alcohol having 1-10 carbon atoms, 1-3 hydroxyl groups and free from olefinic double bonds to form a feed of vanadium pentoxide reduced to a valence between 4 and 4.6, and then contacting the feed with a solution of orthophosphoric acid and at least one unsubstituted alcohol as described above), adding particulate beta-silicon carbide to the heterogeneous reaction mixture under agitation at moderated temperature between 40 DEG C and 120 DEG C, followed by drying, washing and calcining the particles thus formed.

IPC 1-7  
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IPC 8 full level  
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