

Title (en)
POLYNARY METAL VANADIUM OXIDE PHOSPHATE

Title (de)
POLYNÄRES METALL-VANADIUMOXIDPHOSPHAT

Title (fr)
PHOSPHATE POLYNAIRE D'OXYDE DE VANADIUM ET DE MÉTAL

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Application
EP 08717693 A 20080312

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Abstract (en)
[origin: WO2008113729A2] The invention relates to a novel polynary metal oxide phosphate of general formula $M_{a/2}V_{b/2}O_{c/2}(PO_4)_d$ (I), wherein M represents one or more metals selected from the group including V, Cr, Fe, Co, Ni, Ru, Rh, Pd, Cu, Zn, Cd, Hg, Be, Mg, Ca, Sr and Ba, a has a value of 0.5 to 1.5, b has a value of 1.5 to 2.5, c has a value of 1.5 to 2.5, said novel compound having a crystal structure and being characterized by defined diffraction reflexes in powder X-ray diffraction. Preferred representatives are $CoV_{b/2}O_{c/2}(PO_4)_d$, $NiV_{b/2}O_{c/2}(PO_4)_d$ or $CuV_{b/2}O_{c/2}(PO_4)_d$. The metal oxide phosphates are suitable as gas phase oxidation catalysts, e.g. for producing maleic anhydride from a hydrocarbon with at least four carbon atoms.

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