

Title (en)
POLYNARY METAL OXIDE PHOSPHATE

Title (de)
POLYNÄRES METALLOXIDPHOSPHAT

Title (fr)
PHOSPHATE POLYNAIRE D'OXYDE MÉTALLIQUE

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Application
EP 08717691 A 20080312

Priority
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Abstract (en)
[origin: WO2008113728A2] The invention relates to a novel polynary metal oxide phosphate of general formula $M_{a/2}(VO)(P_{2/2}O_{7/2})_b(PO_{4/2})_{c/2}$ (I), wherein M represents one or more metals selected from the group including V, Ti, Zr, Hf, Cr, Fe, Co, Ni, Ru, Rh, Pd, Cu, Zn, Cd, Hg, B, Be, Mg, Ca, Sr and Ba, a has a value of 1.5 to 2.5, b has a value of 0.5 to 1.5, c has a value of 0.5 to 1.5, said novel compound having a crystal structure and being characterized by defined diffraction reflexes in powder X-ray diffraction. A preferred representative is $Fe_{2/2}VO(P_{2/2}O_{7/2})_b(PO_{4/2})_{c/2}$. 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.

IPC 8 full level
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CPC (source: EP US)
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C-Set (source: EP US)
1. **C07C 51/215 + C07C 57/145**
2. **B01J 2523/00 + B01J 2523/51 + B01J 2523/55 + B01J 2523/842**

Citation (search report)
See references of WO 2008113728A2

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