

Title (en)
CATALYST AND METHOD FOR PARTIALLY OXIDIZING HYDROCARBONS

Title (de)
KATALYSATOR UND VERFAHREN ZUR PARTIALOXIDATION VON KOHLENWASSERSTOFFEN

Title (fr)
CATALYSEUR ET PROCÉDÉ D'OXYDATION PARTIELLE D'HYDROCARBURES

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Application
EP 10724375 A 20100528

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Abstract (en)
[origin: WO2010136551A2] The invention relates to a catalyst for partially oxidizing hydrocarbons in the gas phase, containing a multi-metal oxide of the general formula (I), $\text{Ag} \text{MObVcMdOe} \cdot f \text{H}_2\text{O}$ (I), wherein M stands for at least one element selected from among Li, Na, K, Rb, Cs, Be, Mg, Ca, Sr, Ba, B, Al, Ga, In, Si, Sn, Pb, P, Sb, Bi, Y, Ti, Zr, Hf, V, Nb, Ta, Cr, W, Mn, Re, Fe, Ru, Os, Co, Rh, Ir, Ni, Pd, Pt, Cu, Au, Zn, Cd, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, and U, a has a value of 0.5 to 1.5, b has a value of 0.5 to 1.5, c has a value of 0.5 to 1.5, a+b+c has the value 3, d has a value of less than 1, e means a number that is determined by the valence and frequency of the elements other than oxygen in the formula (I), f has a value of 0 to 20, which multi-metal oxide exists in a crystal structure, the X-ray powder diffractogram of which is characterized by diffraction reflections at a minimum of 5 lattice distances selected from among $d = 4.53, 3.38, 3.32, 3.23, 2.88, 2.57, 2.39, 2.26, 1.83, 1.77 \text{ \AA}$ ($\pm 0.04 \text{ \AA}$).

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