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(54) Title: CATALYST COMPOSITION PREPARATION AND USE

(57) Abstract: A bulk metal oxide catalyst composition of the general formula (I): $(X)_b(M)_c(Z)_d(O)_e$, wherein X represents at least one non-noble Group VIII metal; M represents at least one non-noble Group VIb metal; Z represents one or more elements selected from aluminium, silicon, magnesium, titanium, zirconium, boron, and zinc; one of b and c is the integer 1; and d and e and the other of b and c each are a number greater than 0 such that the molar ratio of b:c is in the range of from 0.5:1 to 5:1, the molar ratio of d:c is in the range of from 0.2:1 to 50:1, and the molar ratio of e:c is in the range of from 3.7:1 to 108:1; is prepared by controlled (co)pre-
cipitation of component metal compounds, refractory oxide material, and alkali compound in protic liquid. Resulting compositions find use in hydrotreatment processes involving particularly hydrodesulphurisation and hydrodenitrification.



WO 2004/073859 A1