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(54) Title: MOLYBDENUM MIXED METAL OXIDE CATALYSTS FOR THE PRODUCTION OF UNSATURATED ALDEHYDES FROM OLEFINS

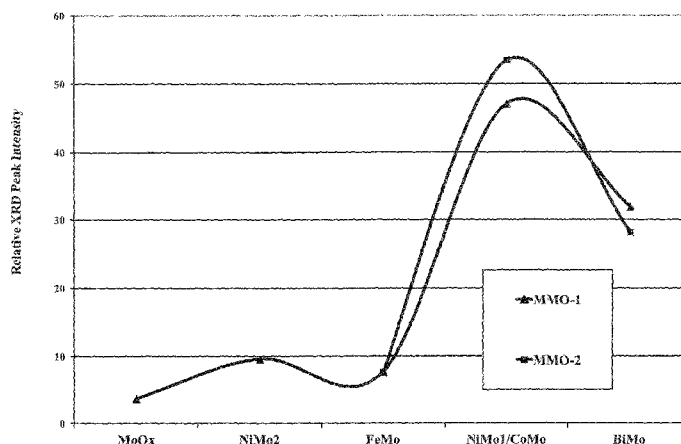


FIG. 3

(57) Abstract: A catalyst for the oxidation of an olefin to an unsaturated aldehyde comprising a mixed metal oxide having the formula (I): $\text{Mo}_a\text{W}_b\text{M}_c\text{M}'_d\text{M}''_e\text{Z}_f\text{O}_g$ where M represents trivalent metals, M' represents divalent metals, M'' represents monovalent metals, Z represents elements in the form of an oxide, a, b, c, d, e, f and g are numbers, and where the catalyst has an anion to cation molar (ACM) ratio greater than 1.00 and less than 2.00 and an M' to M molar ratio between 1.95 and 2.15.