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(54) Title: METAL COMPLEXES FOR USE IN THE CARBONYLATION OF ETHYLENICALLY UNSATURATED COMPOUNDS

(57) Abstract: The invention concerns metal complexes and their preparation, in particular a metal complex $M L_n X_m$, where M is a metal of group 8, 9 or 10 and X is a halide, HCO_3^- , NO_3^- , CO_3^{2-} or carboxylate. n is a number equal to or less than the coordination number of the metal and m is 1 or 2 and is equal to the oxidation state of the metal. The ligand L may be a bidentate phosphine of formula (I), (II), (III) or (IV) as set out herein. The process of production comprises reacting an ammine compound of metal M with a complexing compound, which is preferably a phosphine.



WO 2007/119079 A1