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(54) Title: PHOSPHOR, ARSENIC AND ANTIMONY COMPOUNDS BASED UPON DIARYL-ANELLATED BICYCLO'2.2.N! PARENT SUBSTANCES AND CATALYSTS CONTAINING SAME

(54) Bezeichnung: VERBINDUNGEN DES PHOSPHORS, ARSENS UND DES ANTIMONS BASIEREND AUF DIARYLANELLIERTEN BICYCLO'2.2.N!-GRUNDKÖRPERN UND DIESE ENTHALTENDE KATAKYSATOREN

(57) Abstract: The present invention relates to phosphor, arsenic and antimony compounds based upon diaryl-anellated bicyclo'2.2.n! parent substances. The invention also relates to a method for producing the same and a catalyst which comprises at least one complex of a metal pertaining to the VIII. subgroup, whereby said complex has such a compound as the ligand. The invention further relates to the use of said catalysts for hydroformylation, hydrocyanation, carbonylation, hydrogenation, olefin oligomerisation, olefin polymerisation and metathesis.

(57) Zusammenfassung: Die vorliegende Erfindung betrifft Verbindungen des Phosphors, Arsens und des Antimons, basierend auf diarylanellierten Bicyclo '2.2.n!-Grundkörpen, ein Verfahren zu ihrer Herstellung und einen Katalysator, der wenigstens einen Komplex eines Metalls der VIII. Nebengruppe mit einer solchen Verbindung als Liganden umfasst. Die Erfindung betrifft weiterhin die Verwendung dieser Katalysatoren zur Hydroformylierung, Hydrocyanierung, Carbonylierung, Hydrierung, Olefinoligomerisierung und -polymerisierung sowie zur Metathese.

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