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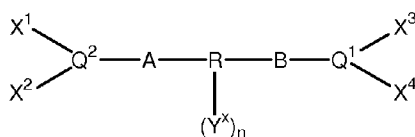
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(I)

(57) Abstract: Novel bidentate ligands of general formula (I) are described Formula (I): R represents a hydrocarbyl aromatic structure. The substituent(s) Y^x on the aromatic structure has a total $X=1-n \sum tY^x$ of atoms other than hydrogen such that $^{x-1-n} \sum tY^x$ is ≥ 4 , where n is the total number of substituent(s) Y^x and tY^x represents the total number of atoms other than hydrogen on a particular substituent Y^x . The groups X^1 , X^2 , X^3 and X^4 are joined to Q^1 or Q^2 via tertiary carbon atoms to the respective atom Q^1 or Q^2 ; and Q^1 and Q^2 each independently represent phosphorus, arsenic or antimony. A catalyst system and a process for the carbonylation of ethylenically unsaturated compounds utilising the catalyst system is also described.

WO 2008/065448 A1