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(54) Title: BIDENTATE LIGAND FOR THE TELOMERIZATION OF DIENES

(57) Abstract: Process for the telomerization of a conjugated diene, wherein the conjugated diene is reacted with a compound containing an active hydrogen atom and having a formula R-H in the presence of a telomerization catalyst based on: (a) a source of group VIII metal, (b) a bidentate ligand wherein the bidentate ligand has the general Formula (I): $R^1R^2M^1-R-M^2R^3R^4$ wherein M^1 and M^2 are independently P, As or Sb; R^1 , R^2 , R^3 and R^4 independently represent a monovalent aliphatic group; or R^1 , R^2 and M^1 together and/or R^3 , R^4 and M^2 together independently represent an optionally substituted aliphatic cyclic group with at least 5 ring atoms, of which one is the M^1 or M^2 atom, respectively; R represents a bivalent organic bridging group; and novel bidentate diphosphines which can be used in this process.



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