

VINYL-SUBSTITUTED BRIDGED METALLOCENES

ABSTRACT OF THE DISCLOSURE

A method is provided for forming a supported cyclopentadiene-type compound comprising contacting a cyclopentadiene-type compound containing an active halogen with an inorganic support having surface hydroxyl group. Also there is provided a method of preparing a supported metallocene comprising reacting the supported cyclopentadiene-type compound with a transition metal compound under suitable conditions. There is also provided a process for producing bridged cyclopentadiene-type ligands having a bridge having branch that has a terminal vinyl group. Also metallocenes of these ligands are provided. Still further there is provided a process for producing bridged cyclopentadiene-type ligands having a bridge having a branch that has a terminal active halogen. The resulting new ligands and supported metallocenes produced therefrom are also provided. There is further provided supported metallocene catalysts wherein at least two metallocenes of differing effectiveness are both bonded to an inorganic support having surface hydroxy groups. Olefin polymerization employing the inventive bridged supported metallocenes is also provided, as well the resulting polymer products.

This is the replacement sheet

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