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(54) Title: CATALYST COMPOSITIONS COMPRISING ORGANOMETALLIC COMPOUNDS

(57) Abstract

There is provided a catalyst composition comprising a first component which is an organometallic compound comprising a metal M of Group 3 to 6 of the Periodic Table or the Lanthanide series and at least one (hetero)cyclohexadienyl ligand of the general formula (I): C_5AR_n wherein A is an element chosen from Group 13 to 16 of the Periodic Table, R which can be connected to C or to A and which may form a bridge is independently hydrogen or an organic substituent which may contain one or more heteroatoms and n is 3 plus the number of valencies of A, and a second component which acts as a co-catalyst. There is further provided the use of this catalyst composition in a process for the (co)oligomerisation or (co)polymerisation of olefinically unsaturated hydrocarbons.