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(54) Title: IMPROVED METAL-LIGAND COMPLEX CATALYZED PROCESSES

(57) Abstract

This invention relates to a method of stabilizing a metal–organophosphorus ligand complex catalyst against deactivation in a process which comprises reacting one or more reactants in the presence of a metal–organophosphorus ligand complex catalyst and optionally free organophosphorus ligand to produce a reaction product fluid comprising one or more products, and in which at least a portion of said process is conducted under separation conditions sufficient to effect at least some deactivation of the metal–organophophorus ligand complex catalyst, which method comprises conducting the portion of said process that occurs under separation conditions in the presence of one or more alkadienes sufficient to prevent and/or lessen deactivation of the metal–organophosphorus ligand complex catalyst.