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(54) Title: DUAL- OR MULTI-HEADED CHAIN SHUTTTLING AGENTS AND THEIR USE FOR THE PREPARATION OF BLOCK COPOLYMERS

(57) Abstract: This disclosure relates to olefin polymerization catalysts and compositions, their manufacture, and the production of polyolefins using specific catalyst compositions, including the use of chain-shuttling agents in the olefin polymerization process. Specifically, this disclosure provides for dual-headed and multi-headed chain shuttling agents (CSAs or MSAs) and for their use in preparing blocky copolymers. By controlling the ratio of dual-headed and multi-headed CSA sites to mono-headed CSA sites, a blocky copolymer can be provided having properties such as a narrow molecular weight distribution and/or improved melt properties.



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