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(54) Title: PROCESSES FOR MAKING POLYOLEFINS WITH COMPOSITION CONTROL

(57) Abstract: Processes for making olefin copolymers, particularly ethylene-based copolymers. A process for making an olefin copolymer can include introducing an olefin monomer, at least one other olefin comonomer, and a single type of catalyst system to a tubular reactor to produce an olefin copolymer containing: a) an absolute comonomer distribution (CD) slope 90 of about 2.0 to about 30.0, an absolute CD slope 75 of about 2.0 to about 30.0, an absolute CD slope 50 of about 2.0 to about 30.0, or an absolute CD slope 25 of about 2.0 to about 30.0; b) a first long chain branching index (g'(Mz)) of about 0.30 to about 1.0; and c) a second long chain branching index (g'(Mz+1)) of about 0.30 to about 1.0. The tubular reactor can include one or more plug flow components, one or more spiral heat exchangers, and/or a recycle pump.



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