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(54) Title: IN-LINE PROCESS FOR PRODUCING PLASTICIZED POLYMERS AND PLASTICIZED POLYMER BLENDS

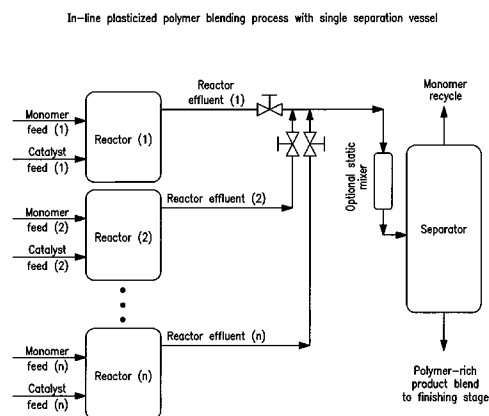


FIG. 6

(57) Abstract: A process for fluid phase in-line blending of plasticized polymers by providing two or more reactor trains configured in parallel and a separator, wherein one or more of the trains produces one or more polymers and another produces one or more plasticizers; contacting in at least one train olefin monomers, catalyst systems, optional comonomers, scavengers, diluents or solvents, at a temperature above the solid-fluid phase transition temperature of the polymerization system and a pressure no lower than 10 MPa below the cloud point pressure of the polymerization system and less than 1500 MPa; forming a reactor effluent including a homogeneous polymer mixture and plasticizer-monomer mixture in each train; passing the reactor effluents through the separator; maintaining the temperature and pressure within the separator to form a fluid-fluid two-phase system; and separating the phases. The polymer-rich blend phase is conveyed to a downstream finishing stage.

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