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(54) Title: POLYMER RESIN USING ETHYLENE MONOMERS FOR MORE EFFICIENT FOAMING PROCESSES

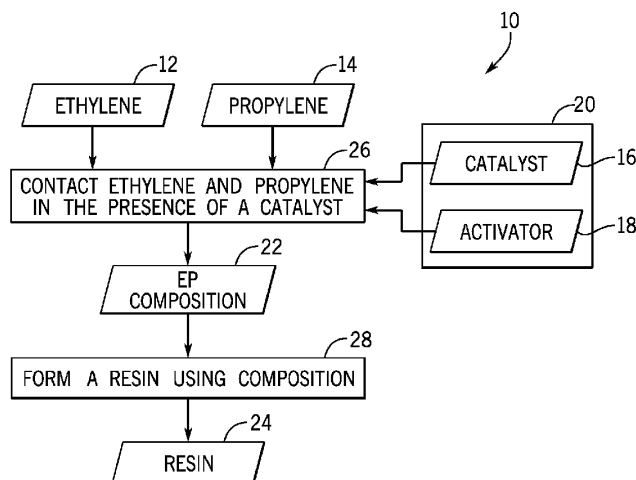


FIG. 1

(57) Abstract: Propylene based thermoplastic elastomer (TPE) resins produced from a mixture comprising ethylene monomers and propylene monomers are capable of incorporation within expanded bead foam applications including high melt strength and high stiffness with beneficial mechanical properties. The propylene polymer resins exhibit a flexural modulus between 500 MPa and 1100 MPa, indicating high mechanical properties. The propylene polymer resins with melting temperatures less than 140°C are significantly different than certain resins, making these resins particularly suitable for expanded bead foam applications.

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