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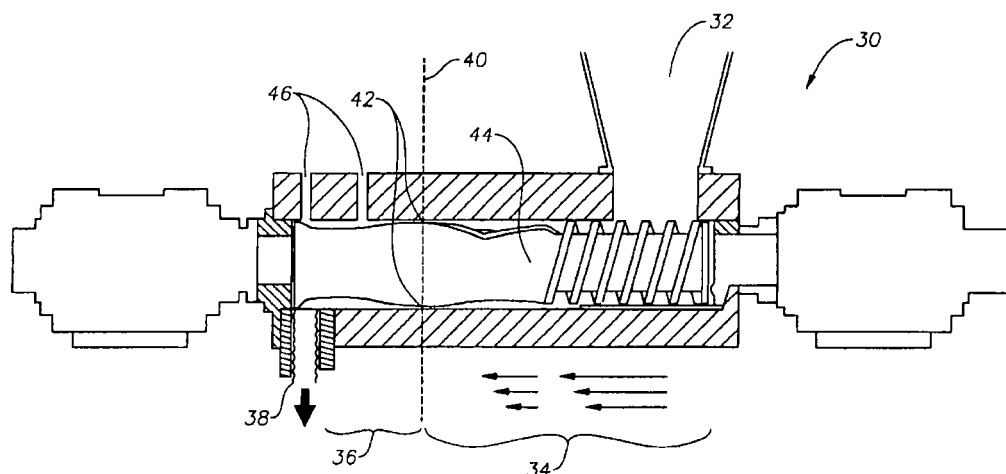
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- Declarations under Rule 4.17:**
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(54) Title: OXYGEN TAILORING OF POLYETHYLENE RESINS



(57) Abstract: A process for extruding a bimodal polyethylene resin wherein polyethylene homopolymer or copolymer having a bimodal molecular weight distribution is conveyed through an extruder and contacted with oxygen. The resin is processed in an extruder having a feed zone (32) in which the resin is not melted, a mixing zone (34) in which at least a portion of the resin is melted, and a melt zone (36) in which the resin is in a molten state. Each extrusion zone is partially filled with resin and is contacted with a gas mixture containing oxygen in 8 to 40 % by volume in the melt zone (36). The resulting oxygen-tailored resin can be used to make polyethylene films having improved bubble stability. The resin can be further pelletized.

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