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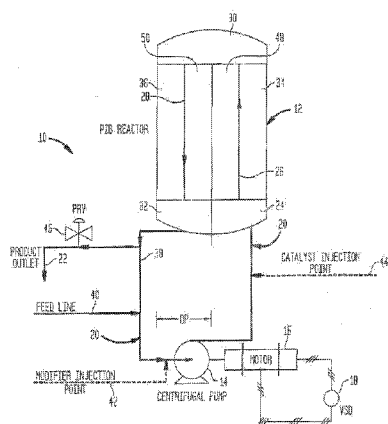
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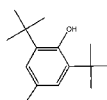
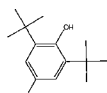
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(54) Title: PRODUCTION OF HIGHLY REACTIVE LOW MOLECULAR WEIGHT PIB OLIGOMERS



(57) Abstract: In one preferred embodiment, the present invention provides a process for the liquid phase polymerization of isobutylene to manufacture highly reactive PIB oligomers having Mn under 1000, using a catalyst composition comprising a Friedel-Crafts catalyst a complexing agent, a chain transfer agent and a polymerization-retarding agent. A chain transfer agent may be selected from: α -DIB and β -DIB and mixtures thereof. 2,4,4-trimethylpent-1-ene 2,4,4-trimethylpent-2-ene (α -DIB) (β -DIB) A polymerization-retarding agent may be selected from: 2,6-bis(1,1-dimethylethyl)-4-methylphenol (BHT) or 2,6-di-tert-butyl-4-vinylphenol





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