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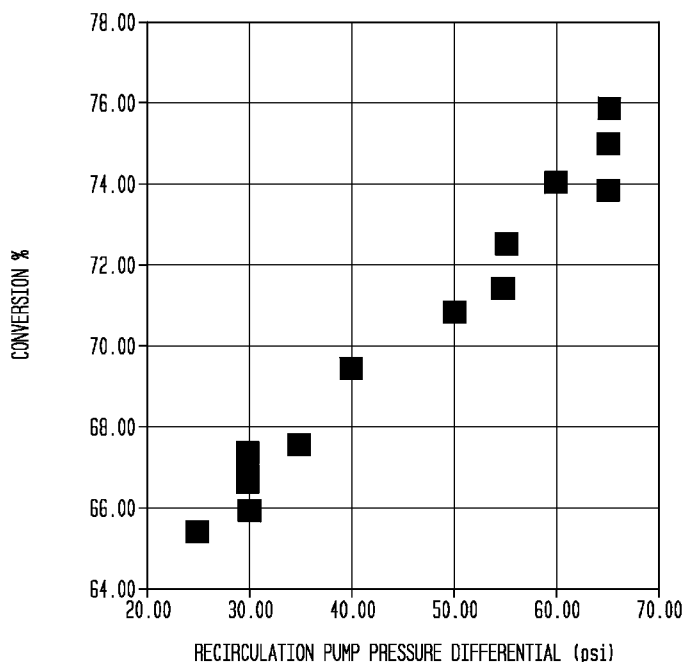
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(54) Title: POLYISOBUTYLENE PREPARED AT HIGH VELOCITY AND CIRCULATION RATE

FIG. 1
CONVERSION AS A FUNCTION OF DELTA P (CIRCULATION RATE);
HIGHLY REACTIVE PIB; NOMINAL Mn of 1000



(57) Abstract: A method of making a polyisobutylene polymer in a recirculating loop reactor with one or more reaction tubes in contact with a heat transfer medium includes controlling the delta P and polymerization reaction to provide a linear velocity of the reaction mixture of at least 11 ft/sec in the one or more tubes of the loop reactor and/or controlling the delta P and polymerization reaction of steps (b) and (c) to provide a recirculation ratio of the recirculation rate to the feed rate of at least 30: 1. Typically, the process utilizes a recirculating pump operating at a pressure differential of from 35 psi to 70 psi.



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