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(54) Title: POLYISOBUTYLENE COMPOSITION HAVING INTERNAL VINYLIDENE AND PROCESS FOR PREPARING THE POLYISOBUTYLENE POLYMER COMPOSITION

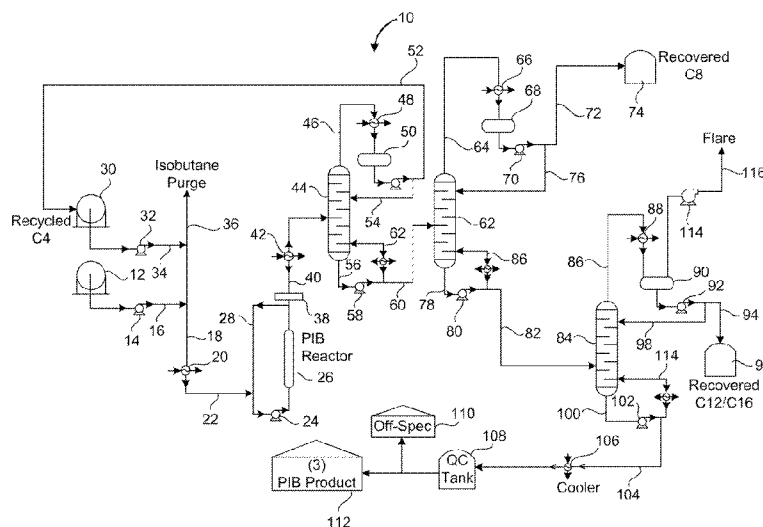


FIG. 2

(57) Abstract: A polyisobutylene composition has polyisobutylene molecules with a first portion having a alpha vinylidene molecules, a second portion having beta vinylidene molecules, and a third portion having internal vinylidene molecules. The first portion has less than 75% of the polyisobutylene molecules of the composition. A total of the first portion and the second portion is less than 90% of the polyisobutylene molecules of the composition. The third portion is more than 3% of the polyisobutylene molecules of the composition. A process for forming this polyisobutylene polymer composition, passes an isobutylene through a fixed bed reactor having a boron trifluoride/alcohol complex therein so as to produce the polyisobutylene composition.