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(71) Applicant: EASTMAN CHEMICAL COMPANY [US/US]; 100 North Eastman Road, Kingsport, TN 37660 (US).

(72) Inventors: BARNICKI, Scott, Donald; 1017 Oldham Court, Kingsport, TN 37660 (US). STAVINOHA, Jerome, Leonard, Jr;; 204 Terese Street, Longview, TX 75605 (US). KLINE, Robert, Sterling; 8124 West Point Drive, Talbott, TN 37877 (US). BRILEY, Steven Edward; 34 Country Place, Longview, TX 75605 (US). HAMILTON, Jackie, Lee; 652 North Cherokee Street, Jonesborough, TN 37659 (US).

(74) Agent: BLAKE, Michael, J.; P.O. Box 511, Kingsport, TX 37662-5075 (US).

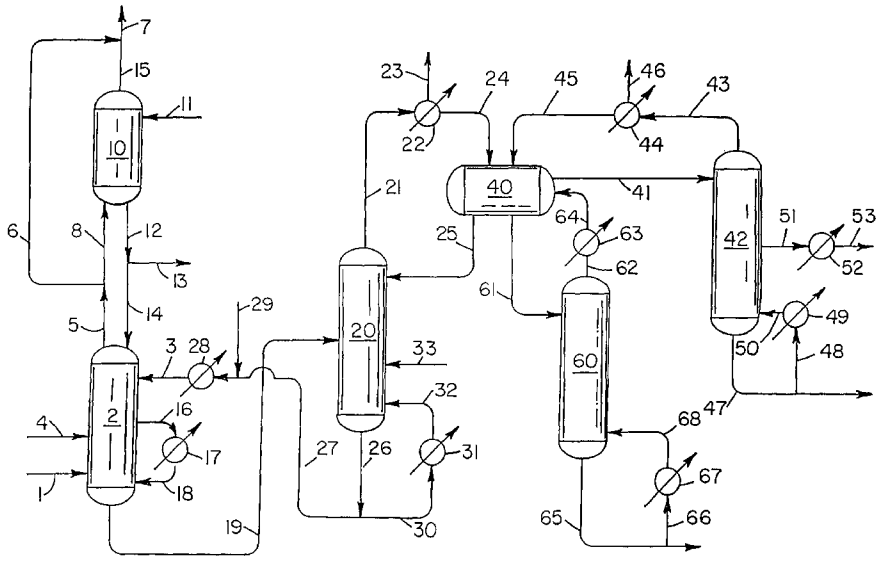
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(54) Title: RECOVERY AND PURIFICATION OF 3,4-EPOXY-1-BUTENE USING WATER-MISCIBLE SOLVENTS



(57) Abstract: Disclosed is a method of recovering and purifying 3,4-epoxy-1-butene (epoxybutene) from an epoxidation effluent gas obtained by the vapor phase, catalytic, partial oxidation of 1,3-butadiene (butadiene) with molecular oxygen in the presence of a silver catalyst wherein the epoxybutene-laden epoxidation product gas is reacted with a water-miscible solvent to absorb the epoxybutene. The disclosed process includes a method of separating epoxybutene from the solvent and other reaction by-products by a novel combination of distillation and decantation steps.

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