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(54) Title: PROCESS FOR PURIFICATION OF PRODUCTS

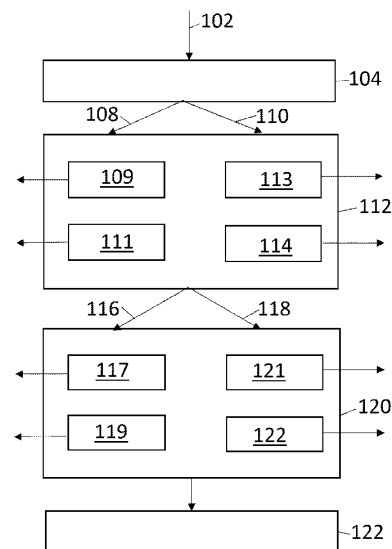


FIG. 1

(57) Abstract: The disclosure is directed to an apparatus and method for recovering ethanol from a fermentation broth. The fermentation broth comprises microbial biomass, ethanol, methanol, ethyl acetate, at least one thiol, and at least one compound having 3 or more carbon atoms. The method comprises separating at least microbial biomass from the fermentation broth to generate a process stream; removing, in any order, from the process stream: ethyl acetate by reacting ethyl acetate with a base compound followed by distillation; at least one thiol by adsorption or reaction to disulfide; methanol by distillation; compounds having 3 or more carbon atoms by distillation; and recovering ethanol by distillation; wherein the distillations may be conducted in a single column or two or more columns.

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