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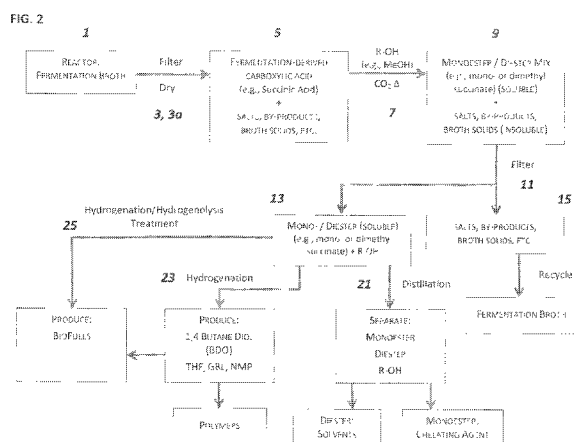
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(54) Title: RECOVERING AND USING CARBOXYLIC ACIDS FROM A FERMENTATION BROTH



(57) Abstract: A process for recovering and using an carboxylic acid derived from a fermentation broth by means of making an ester of the free carboxylic acid and alcohol in carbon dioxide (CO₂) without the presence of any other acid catalyst at a reaction temperature and pressure that corresponds to supercritical, critical or near critical conditions for the alcohol and/or CO₂ is described. The process can constitute part of a general process of refining carboxylic acids derived from a fermentation broth for use in the production of a variety of chemical compounds, such as C₄ platform compounds, polymers, or fuels.