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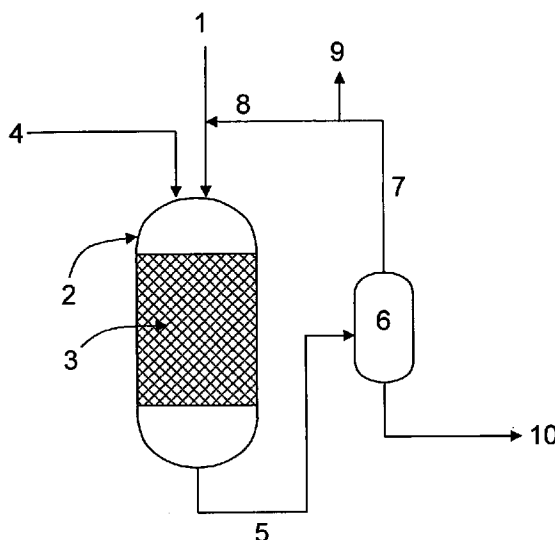
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(54) Title: HYDROGENATION PROCESS



(57) Abstract: A process comprising reacting hydrogen and a reaction composition comprising a carboxylic acid and/or derivative thereof in a reactor to produce a reaction composition comprising one or more C₁ compounds selected from one or more of carbon monoxide (CO), carbon dioxide (CO₂) and methane (CH₄), and one or more product hydrocarbons derived from the carboxylic acid and/or derivative thereof, wherein the molar ratio of C₁ compounds produced by the reaction to the carboxylate groups present in the carboxylic acid and/or derivative thereof in the reaction composition is maintained above a value of 0,37 : 1.

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