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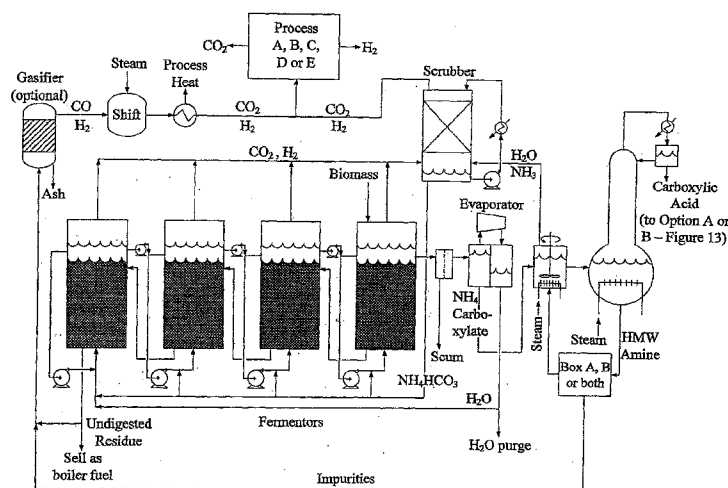
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(54) Title: A METHOD OF BIOMASS CONVERSION INTO MIXED ALCOHOLS



(57) Abstract: In one embodiment, the disclosure includes a method of biomass conversion including fermenting biomass to produce a carboxylic acid or carboxylate salt and hydrogen gas, recovering the hydrogen gas, and converting the carboxylic acid or carboxylate salt to an alcohol using the hydrogen gas. In one embodiment, the hydrogen produced by biomass conversion may be converted to an acetate. Another embodiment relates to a biomass conversion system. The system may include: a fermentation unit for fermentation of biomass to a carboxylic acid or carboxylate salt in a fermentation broth and for production of a carbon dioxide and hydrogen gas stream, an extraction unit for extracting the carboxylic acid or carboxylate salt from the fermentation broth, a gas extraction unit for separation of the hydrogen gas and the carbon dioxide, and a production unit for production of an alcohol from the carboxylic acid or carboxylate salt using the hydrogen gas.

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