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Medoff

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(54) **PROCESSING BIOMASS AND PETROLEUM CONTAINING MATERIALS**

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(58) **Field of Classification Search**

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See application file for complete search history.

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(57) **ABSTRACT**

Biomass (e.g., plant biomass, animal biomass, and municipal waste biomass) is processed to produce useful products, such as fuels. For example, systems can use feedstock materials, such as cellulosic and/or lignocellulosic materials and/or starchy materials, to produce ethanol and/or butanol, e.g., by fermentation.

33 Claims, 81 Drawing Sheets

