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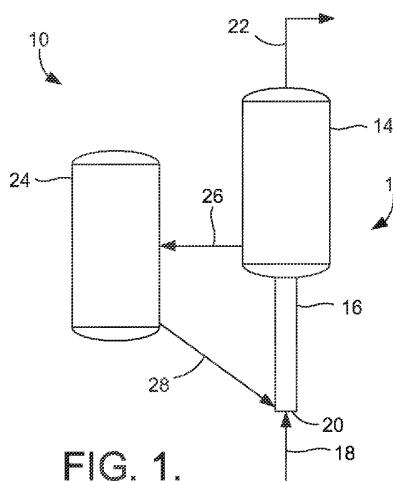
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(54) Title: CO-PROCESSING OF PYROLYSIS OILS, LUBRICANTS, AND/OR PLASTICS



(57) Abstract: The present disclosure provides methods and systems for co-processing a hydrocarbon feed in an FCC system with a second feed of a biomass-derived pyrolysis oil and a third feed of a plastic-derived pyrolysis oil and/or lubricant. A method of co-processing fluid catalytic cracking feeds, includes: introducing a hydrocarbon feed to a fluid catalytic cracking reactor, wherein the hydrocarbon feed comprises hydrocarbons; introducing a biomass feed to the fluid catalytic cracking reactor wherein the biomass feed comprises a biomass-derived pyrolysis oil; introducing a waste feed to the fluid catalytic cracking reactor, wherein the waste feed comprises a plastic, a plastic-derived pyrolysis oil, a lubricant, or a combination thereof; and reacting at least the hydrocarbon feed, the biomass feed, and the waste feed in the presence of one or more fluid catalytic cracking catalysts in the fluid catalytic cracking reactor to produce cracked products.

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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