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(54) Title: PRODUCTION OF BTX AROMATICS AND LIGHT GAS OLEFINS FROM CRUDE OIL AND PLASTIC PYROLYSIS OIL

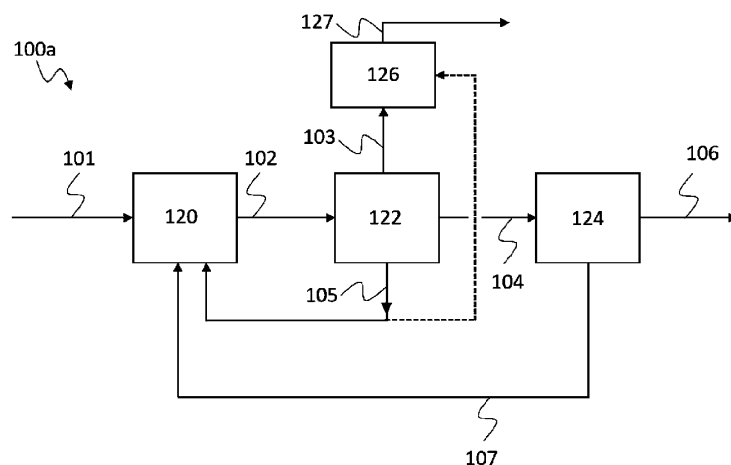


FIG. 1

(57) Abstract: A process for producing C₆ to C₈ aromatics and optionally light gas olefins from crude oil and/or pyrolysis oil is disclosed. The process can include hydroprocessing a first stream containing hydrocarbons from the crude oil and/or pyrolysis oil to obtain a second stream containing saturated hydrocarbons having boiling point less than 350 °C, separating the second stream to obtain a third stream containing hydrocarbons having boiling point less than 70 °C, a fourth stream containing hydrocarbons having boiling point 70 °C to 140 °C, and a fifth stream containing hydrocarbons having boiling point greater than 140 °C, recycling at least a portion of the fifth stream to the hydroprocessing step, reforming the fourth stream to obtain a sixth stream containing C₆ to C₈ aromatics, and optionally cracking the third stream to obtain light gas olefins.

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