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(US). WELLINGTON, Scott, Lee [US/US]; 5109 Aspen Street, Bellaire, TX 77401 (US).

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(74) Agent: LEMUTH, Richard, F.; Shell Oil Company, One Shell Plaza, P.O. Box 2463, Houston, Texas 77252-2463 (US).

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(71) Applicant (for all designated States except US): SHELL OIL COMPANY [US/US]; One Shell Plaza, P.O. Box 2463, Houston, TX 77252-2463 (US).

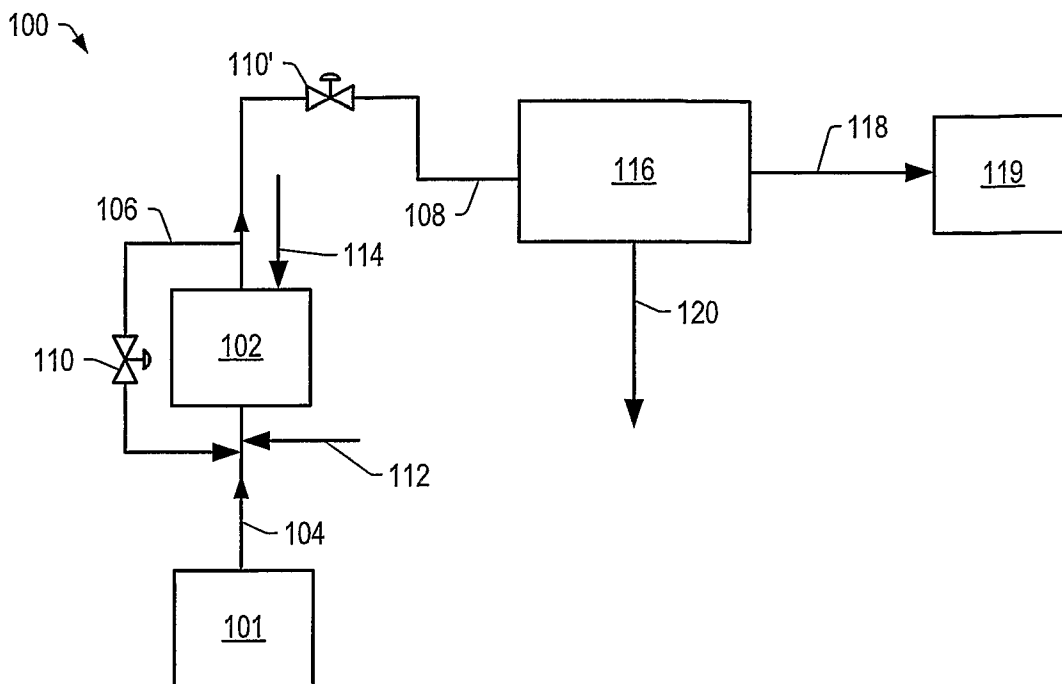
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(72) Inventors; and

(75) Inventors/Applicants (for US only): BROWNSCOMBE, Thomas, F. [US/US]; 2737 Amherst, Houston, TX 77005

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(54) Title: SYSTEMS AND METHODS OF PRODUCING A CRUDE PRODUCT



(57) Abstract: Contact of a crude feed with one or more catalysts produces a total product that includes a crude product. The crude feed has a residue content of at least 0.2 grams of residue per gram of crude feed. The crude product is a liquid mixture at 25°C and 0.101 MPa. One or more properties of the crude product may be changed by at least 10% relative to the respective properties of the crude feed. In some embodiments, gas is produced during contact with one or more catalysts and the crude feed.

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