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- (71) Applicant: **EXXONMOBIL UPSTREAM RESEARCH COMPANY** [US/US]; (EMHC-N1.4A.607), 22777 Springwoods Village Parkway, Spring, TX 77389 (US).
- (72) Inventors: **LIU, Yijun**; 20102 Elaine Rose Ct, Spring, TX 77379 (US). **PIERRE, Fritz, Jr.**; 18011 Bayou Mead Trail, Humble, TX 77346 (US).
- (74) Agent: **JENSEN, Nathan, O.** et al.; ExxonMobil Upstream Research Company, (EMHC-N1.4A.607), 22777 Springwoods Village Parkway, Spring, TX 77389 (US).
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(54) Title: MANAGING MAKE-UP GAS COMPOSITION VARIATION FOR A HIGH PRESSURE EXPANDER PROCESS

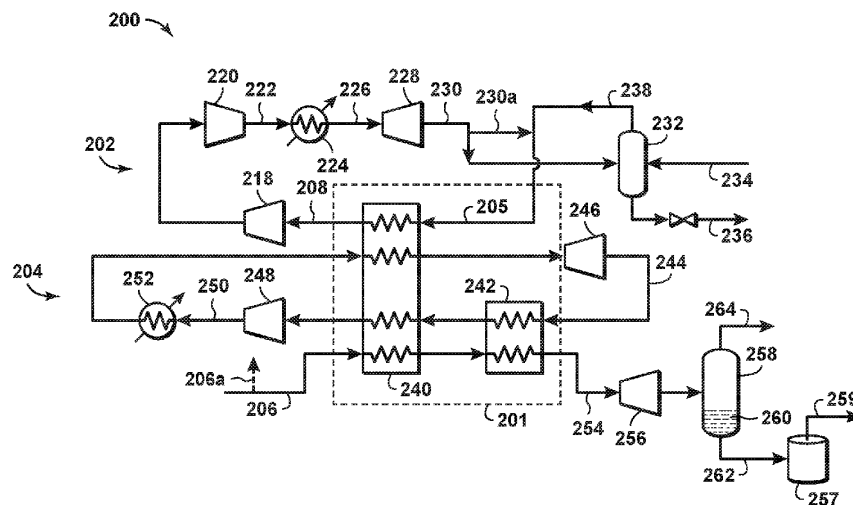


FIG. 2

(57) Abstract: A method for liquefying a feed gas stream. A refrigerant stream is cooled and expanded to produce an expanded, cooled refrigerant stream. Part or all of the expanded, cooled refrigerant stream is mixed with a make-up refrigerant stream in a separator, thereby condensing heavy hydrocarbon components from the make-up refrigerant stream and forming a gaseous expanded, cooled refrigerant stream. The gaseous expanded, cooled refrigerant stream passes through a heat exchanger zone to form a warm refrigerant stream. The feed gas stream is passed through the heat exchanger zone to cool at least part of the feed gas stream by indirect heat exchange with the expanded, cooled refrigerant stream, thereby forming a liquefied gas stream. The warm refrigerant stream is compressed to produce the compressed refrigerant stream.

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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