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(71) Applicant (for all designated States except US): **EXXON-MOBIL UPSTREAM RESEARCH COMPANY** [US/US]; CORP-URC-SW359, P.O.Box 2189, Houston, TX 77252-2189 (US).

(72) Inventor; and

(71) Applicant (for US only): **VALENCIA, Jaime, A.** [US/US]; 5503 Peace Ct., Houston, TX 77041 (US).

(74) Agents: **JENSEN, Nathan O.** et al.; Exxonmobil Upstream Research Company, CORP-URC-SW359, P.O.Box 2189, Houston, TX 77252-2189 (US).

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(54) Title: METHOD AND SYSTEM FOR STARTING UP A DISTILLATION TOWER

(57) Abstract: The present disclosure provides method for clean methane startup of a distillation tower. The method includes maintaining a rectifier section and a lower section in the distillation tower, feeding stream to the lower section, directly feeding methane to at least one of the rectifier section and a rectifier section outlet line of the rectifier section when a contaminant concentration of the contaminant exiting as a vapor in an upper portion of the lower section is outside of a predetermined concentration and introducing the vapor from the lower section to the rectifier section when the contaminant concentration exiting the upper portion of the lower section is within the predetermined concentration.

