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

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GUPTA, Himanshu** [IN/US]; 9278 Laurel Ridge Crossing Road, Lorton, VA 22079 (US). **HUNTINGTON, Richard** [US/US]; 12714 Autumn Crest Drive, Oak Hill, VA 20171 (US). **MINTA, Moses** [US/US]; 7531 Trail Hollow, Missouri City, TX 77459 (US). **MITTRICKER, Franklin, F.** [US/US]; 14777 Presilla Drive, Jamul, CA 91935 (US). **STARCHER, Loren, K.** [US/US]; 3410 Castlebrook Court, Sugar Land, TX 77478 (US).(74) Agents: **TIMMINS, Stephen** et al.; ExxonMobil Upstream Research Company, P.O. Box 2189 (CORP-URC-SW359), Houston, TX 77252-2189 (US).

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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: STOICHIOMETRIC COMBUSTION OF ENRICHED AIR WITH EXHAUST GAS RECIRCULATION

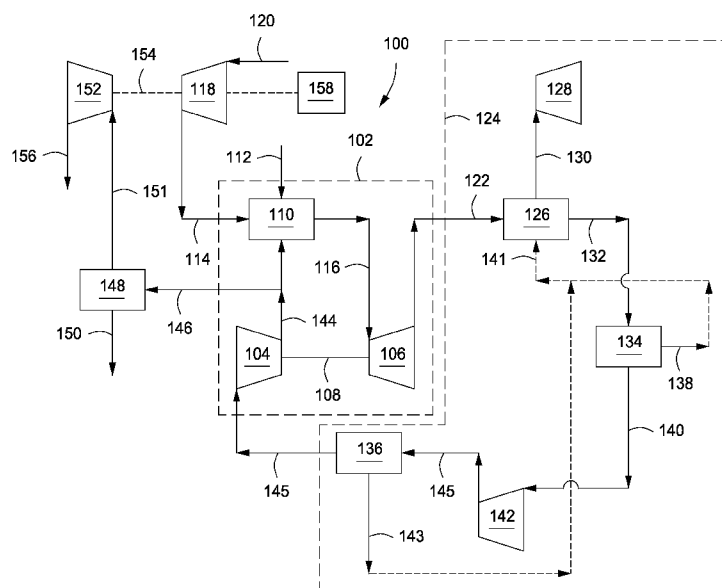


FIG. 1

(57) Abstract: Methods and systems for low emission power generation in hydrocarbon recovery processes are provided. One system includes a gas turbine system configured to stoichiometrically combust a compressed oxidant derived from enriched air and a fuel in the presence of a compressed recycle exhaust gas and expand the discharge in an expander to generate a recycle exhaust stream and drive a main compressor. A boost compressor receives and increases the pressure of the recycle exhaust stream and prior to being compressed in a compressor configured to generate the compressed recycle exhaust gas. To promote the stoichiometric combustion of the fuel and increase the CO₂ content in the recycle exhaust gas, the enriched air can have an increased oxygen concentration.



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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))* — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
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