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- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

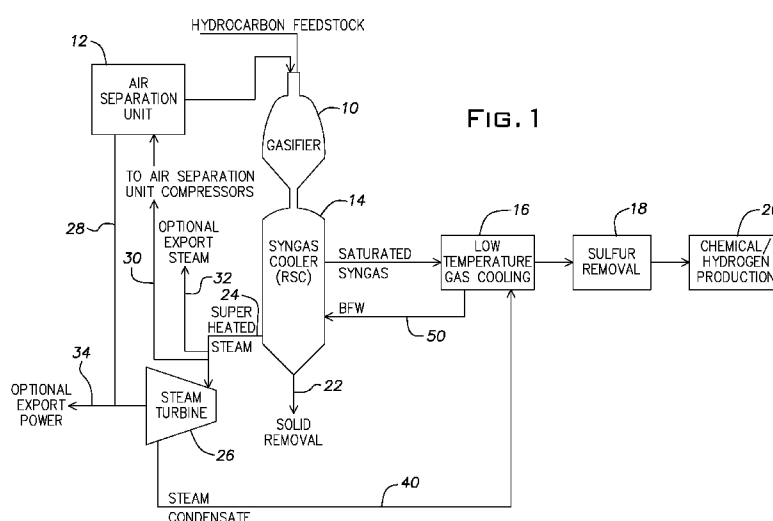
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(54) Title: SELF-GENERATED POWER INTEGRATION FOR GASIFICATION



(57) Abstract: A gasification facility includes an air separator and a high temperature gas cooler for cooling the gaseous products that are produced at the facility's gasifier. The high temperature gas cooler is configured and a method is provided to produce superheated steam that is used to generate electric power in a steam turbine to satisfy the power demands of at least the air separator. Alternatively, or in addition, the superheated steam can be employed to drive compressors at the air separator. The high temperature gas cooler can be further configured so that it produces only that quantity of superheated steam required for the steam turbine to power the gasification facility, including the air separator, or a quantity of superheated steam adequate for the steam turbine to both power the gasification facility, including the air separator, and provide electric power or superheated steam to other users.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2010/022484

A. CLASSIFICATION OF SUBJECT MATTER

INV. F01K23/06 F01K23/10 F22B1/18
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F01K F22B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

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X	GB 2 075 124 A (GEN ELECTRIC) 11 November 1981 (1981-11-11) page 1, line 18 - line 82 -----	1,2,15, 16
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☒ Further documents are listed in the continuation of Box C.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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Information on patent family members

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