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(12) **United States Patent**  
**Cavness et al.**

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(54) **SYSTEMS AND METHODS FOR GENERATING AND CONSUMING POWER FROM NATURAL GAS**

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(71) Applicant: **Crusoe Energy Systems Inc.**, Denver, CO (US)

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(73) Assignee: **Crusoe Energy Systems Inc.**, Denver, CO (US)

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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**Related U.S. Application Data**

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(51) **Int. Cl.**  
**H02J 3/38** (2006.01)  
**C10L 3/10** (2006.01)

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(57) **ABSTRACT**

Systems and methods are provided to mitigate flaring of natural gas. A natural gas processing system may process raw natural gas into a fuel gas stream that may be used to power any number of on-site power generation modules. In turn, the power generation modules may convert the fuel gas stream into an electrical output, which may be employed to power any number of distributed computing units housed within one or more mobile data centers. In certain embodiments, the distributed computing units may be adapted to mine cryptocurrency or perform other distributed computing tasks to generate revenue.

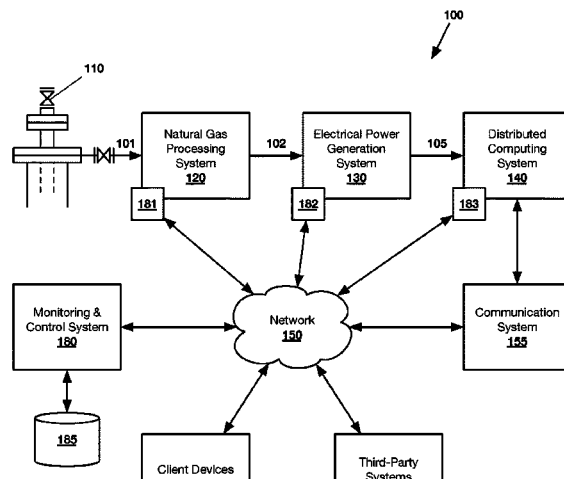
(52) **U.S. Cl.**  
CPC ..... **H02J 3/38** (2013.01); **C10L 3/104** (2013.01); **E21B 43/16** (2013.01); **G06Q 20/065** (2013.01);

(Continued)

(58) **Field of Classification Search**  
CPC ..... C10L 3/104; E21B 43/16; G06Q 20/065; G06Q 2220/00; H02J 2300/10; H02J 3/40; H02J 3/38; H02J 3/381

See application file for complete search history.

**20 Claims, 6 Drawing Sheets**



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*G06Q 20/06* (2012.01)  
*E21B 43/16* (2006.01)  
*H02J 3/40* (2006.01)
- (52) **U.S. Cl.**  
 CPC ..... *H02J 3/40* (2013.01); *G06Q 2220/00*  
 (2013.01); *H02J 2300/10* (2020.01)

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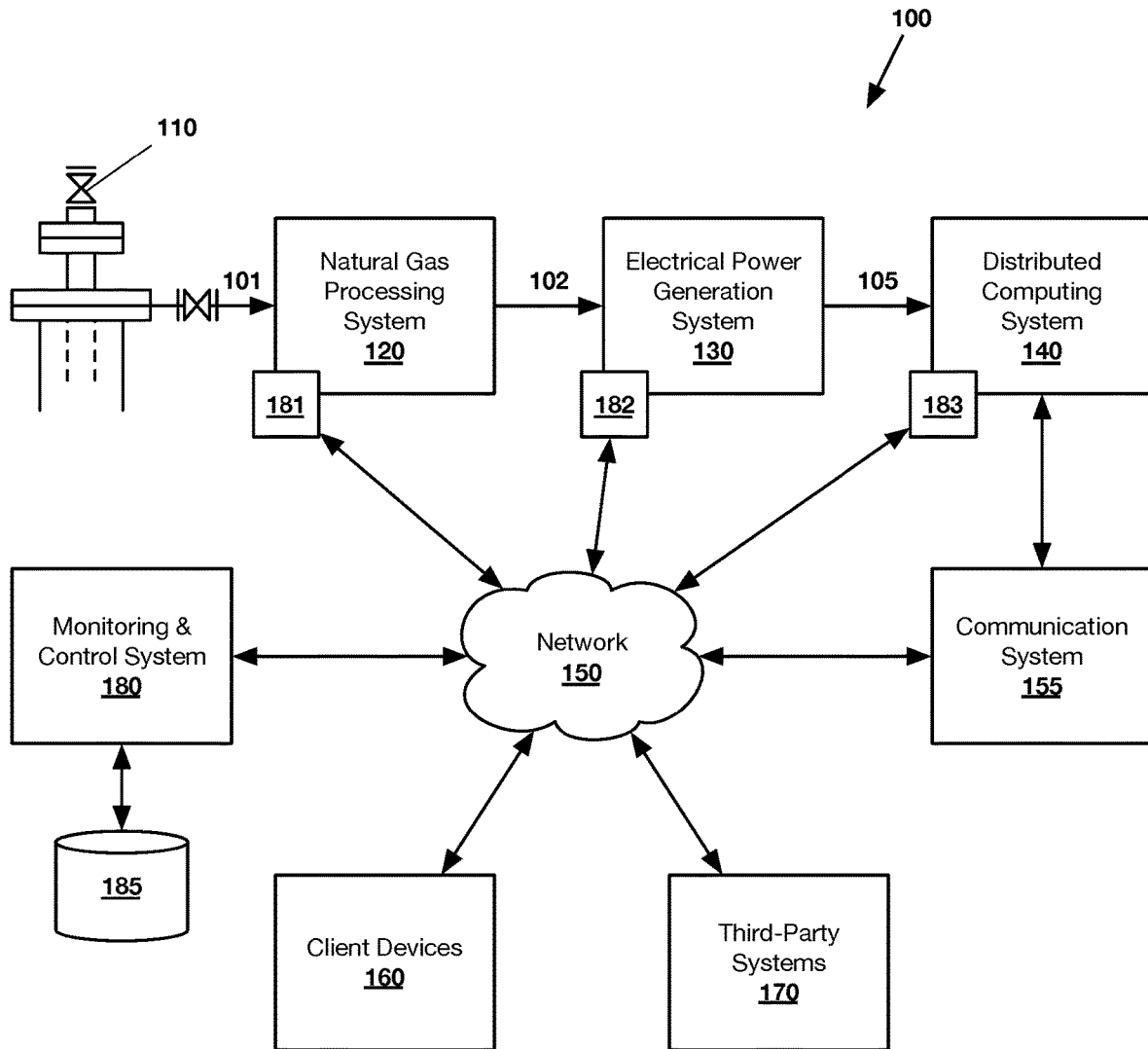


FIG. 1

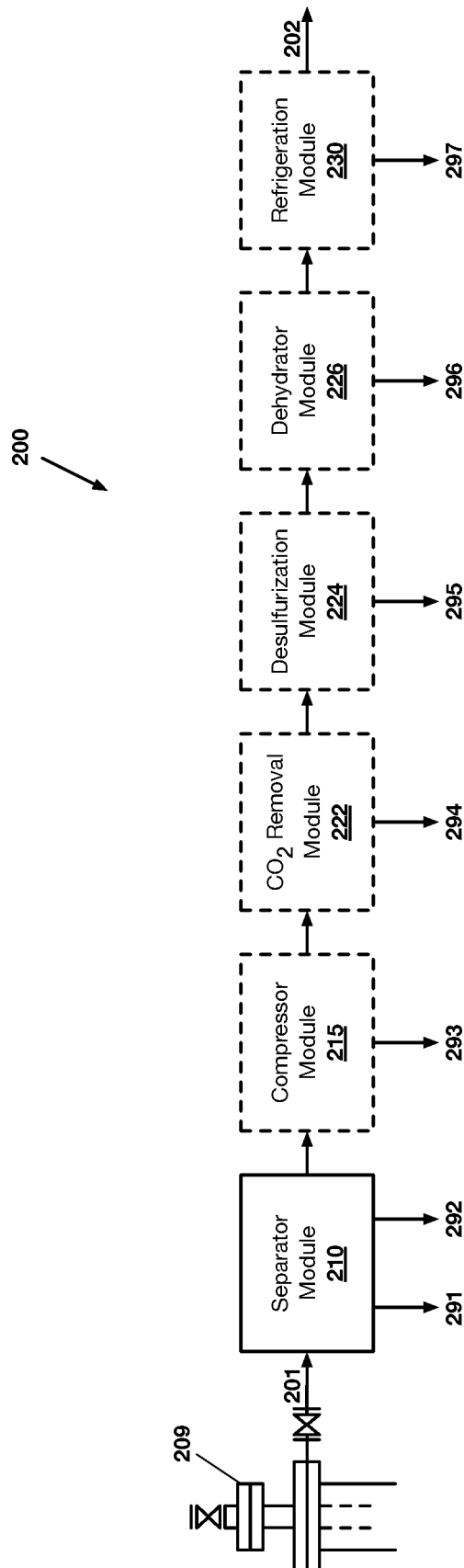


FIG. 2

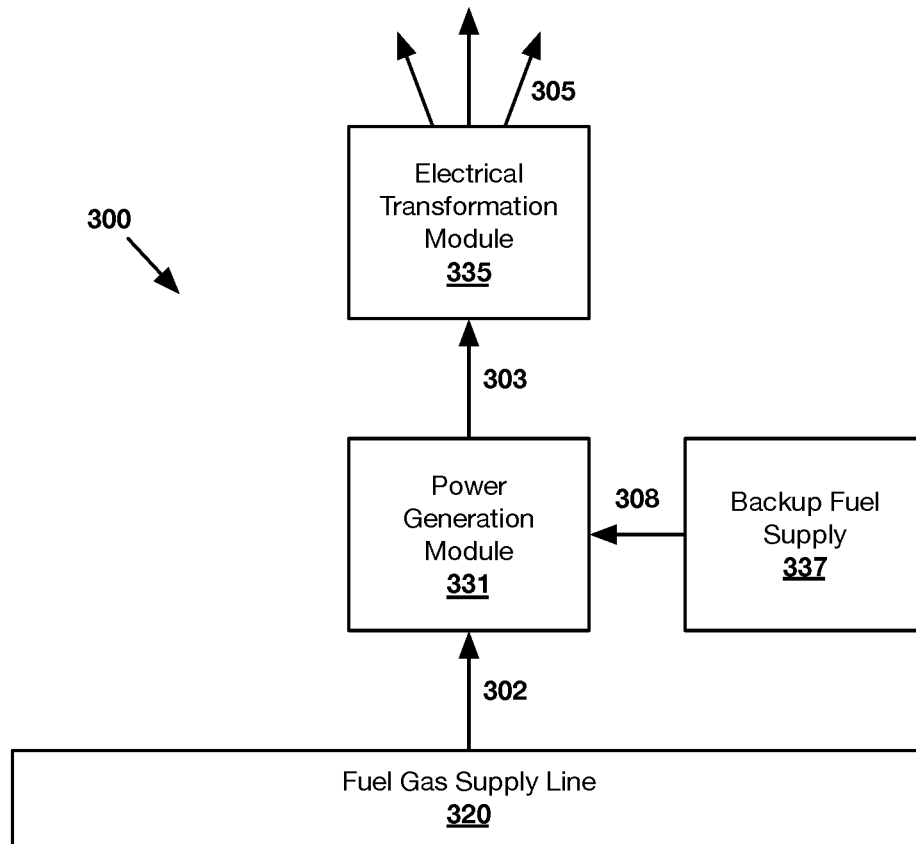


FIG. 3

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