

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

(10) **Patent No.:** US 8,950,199 B2
(45) **Date of Patent:** Feb. 10, 2015

(54) **SYSTEM AND METHOD FOR ENERGY ALLOCATION**

(75) Inventors: **Eric Barger**, Prosper, TX (US); **Viral J. Patel**, Dallas, TX (US); **Brian Crews**, Plano, TX (US)

(73) Assignee: **Perfectly Green Corporation**, McKinney, TX (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 902 days.

(21) Appl. No. 13/072,207

(22) Filed: **Mar. 25, 2011**

4,263,785 A *	4/1981	Barnak et al	62/79
6,880,535 B2 *	4/2005	Sorter et al	123/528
7,191,736 B2 *	3/2007	Goldman	123/1A
7,469,540 B1 *	12/2008	Knappan et al	60/618
7,507,869 B2 *	3/2009	Cramer	208/311
7,638,314 B2 *	12/2009	Zappi et al	415/134
7,666,666 B2 *	2/2010	Chou	435/289.1
7,771,699 B2 *	8/2010	Adams et al	423/484
7,819,930 B2 *	10/2010	Adams et al	44/605
8,061,132 B2 *	11/2011	Fong et al	80/417
8,065,874 B2 *	11/2011	Fong et al	60/417
8,128,728 B2 *	3/2012	Tsangaris et al	48/128
8,142,650 B2 *	3/2012	Moniwa et al	210/96.1
8,191,360 B2 *	6/2012	Fong et al	60/408
8,191,361 B2 *	6/2012	Fong et al	60/415
8,196,395 B2 *	6/2012	Fong et al	60/370
8,201,402 B2 *	6/2012	Fong et al	60/371
8,215,105 B2 *	7/2012	Fong et al	60/408

(65) **Prior Publication Data**
US 2011/0232867 A1 Sep 29, 2011

Related U.S. Application Data

(60) Provisional application No. 61/318,311, filed on Mar 27, 2010, provisional application No 61/318,314, filed on Mar 27, 2010.

(51) **Int. Cl.**
F25B 7/00 (2006.01)
C11B 13/00 (2006.01)

(52) **U.S. Cl.**
CPC *C11B 13/00* (2013.01)
USPC **62/79**

(58) **Field of Classification Search**
USPC **62/79**
See application file for complete search history.

FOREIGN PATENT DOCUMENTS

EP	0970613	1/2000
KR	1020020023699	3/2002

OTHER PUBLICATIONS

International Search Report and Written Opinion, International application No. PCT/US2011/030006, Nov. 21, 2011

Primary Examiner — Ujjwala Covic
(74) Attorney, Agent, or Firm — James L. Baudino

(57) **ABSTRACT**

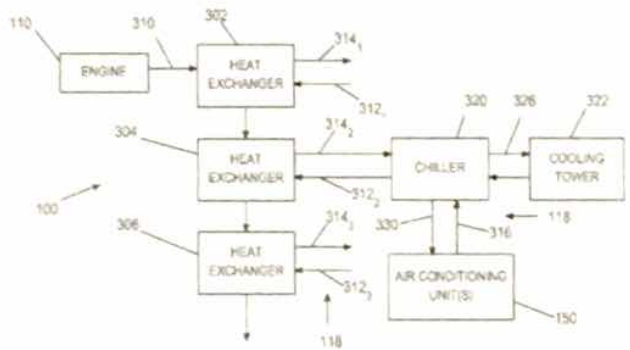
A system for energy allocation includes a filtration system configured to filter waste vegetable oil generated by a facility, an engine fueled with the filtered vegetable oil, and a generator driven by the engine to provide an alternating current (AC) power supply. The exhaust heat generated by the engine is processed and allocated to the facility as an energy source.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,042,017 A *	8/1977	Donch et al	62/79
4,173,125 A *	11/1979	Bradshaw	62/79
4,226,089 A *	10/1980	Barrow	62/79

22 Claims, 9 Drawing Sheets



THIS IS TO CERTIFY that this is a true copy from the records of the U.S. Patent and Trademark Office of the first page of the above identified patent:

[Signature]
Certifying Officer

2/13/2015
Date