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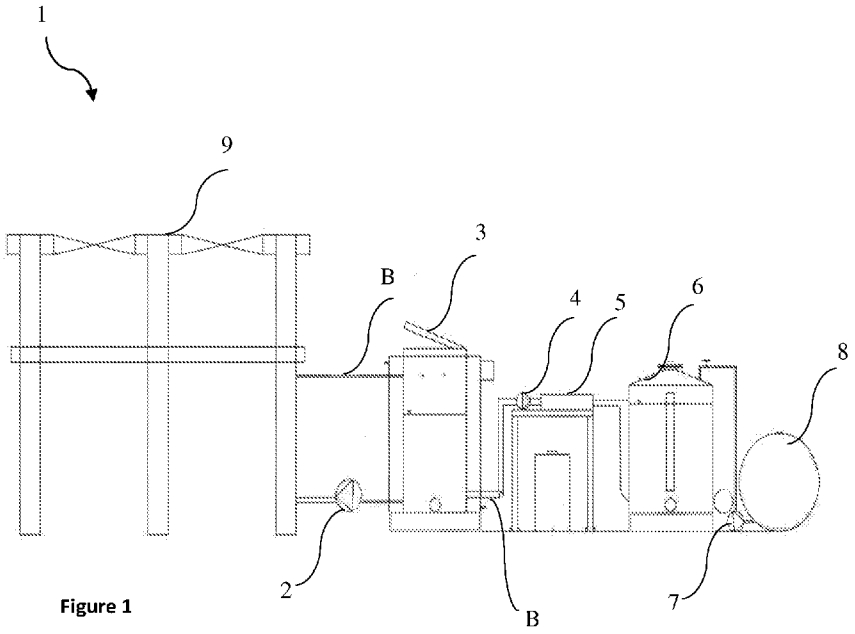

Figure 1

(57) Abstract: The present invention obtains the nutrients required for the algae from human metabolic wastes and absorbs the solar energy by using a pergola (9) for the required algae growth surfaces. Biogas is produced from the grown algae and is enabled to be used as thermal and luminous energy.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

C02F 3/00 (2006.01)i; C02F 3/30 (2006.01)i; A01G 33/00 (2006.01)

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)

C02F 3/00; C02F 3/30; A01G 33/00

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 practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Tuantet, K., Janssen, M., Temmink, H. et al. Microalgae growth on concentrated human urine J Appl Phycol (2014) 26: 287. https://doi.org/10.1007/s10811-013-0108-2, 12 Sep 2013	1-3
A	Stucki, Seraina & Vogel, Frédéric & Ludwig, Chr & Haiduc, Anca & Brandenberger, Martin. (2008). Catalytic gasification of algae in supercritical water for biofuel production and carbon capture. Energy and Environmental Science. 22. 535-541. Published on 20 March 2009	1-3
A	M. Brandenberger, J. Matzenberger, F. Vogel, Ch. Ludwig,Producing synthetic natural gas from microalgae via supercritical water gasification: A techno-economic sensitivity analysis,Biomass and Bioenergy, Volume 51, 2013, Pages 26-34, ISSN 0961-9534, Published Online 13 Feb 2013	1-3
A	WO 2012153174 A2 (UNIV ARIEL RES & DEV CO LTD [IL]) 15 November 2012 (2012-11-15) Description Page 3, Figure 1	1-3

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Patent document cited in search report	Publication date (day/month/year)	Patent family member(s)	Publication date (day/month/year)
WO 2012153174 A2	15 November 2012	EP 2704999 A2	12 March 2014
		IL 229191 A	29 March 2018
		US 9771287 B2	26 September 2017