



(51) International Patent Classification:

C07C 1/00 (2006.01) *C12M 1/12* (2006.01)
C10J 3/00 (2006.01) *C02F 3/28* (2006.01)
C10L 3/00 (2006.01)

(21) International Application Number:

PCT/NL2010/000112

(22) International Filing Date:

19 July 2010 (19.07.2010)

(25) Filing Language:

English

(26) Publication Language:

English

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Hague (NL).(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,

CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP,
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ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
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SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG,
ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ,
TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- 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))

(88) Date of publication of the international search report:

8 March 2012

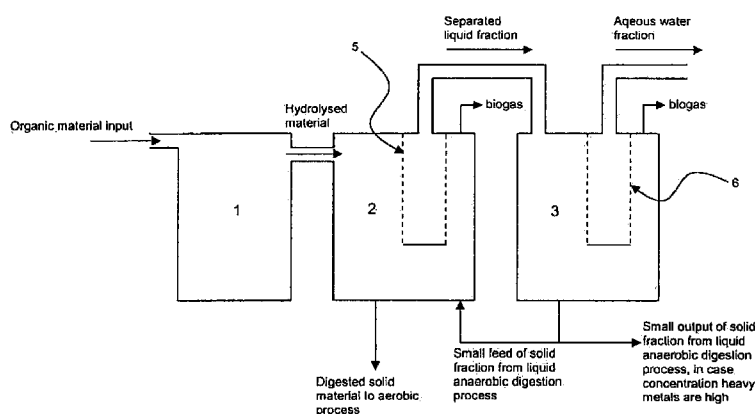
(54) Title: DEVICE AND METHOD FOR THE ANAEROBIC DIGESTION OF ORGANIC MATERIAL TO BIOGAS BY
MEANS OF MICRO-ORGANISMS

Fig. 1

(57) **Abstract:** The invention relates to a device and method for the anaerobic digestion of organic material to biogas by means of micro-organisms. The device and method intensify the anaerobic digestion process by using three separate reactors wherein a hydrolysis process, a first digestion process of a separated solid fraction, and a second digestion process of a separated liquid fraction take place respectively. Membranes and/or mechanical separation means are used to separate the fractions. This keeps the microorganisms, such as microbes, in the reactors. The obtained intensification of the anaerobic digestion process enables to operate with smaller tanks, which leads to lower building costs. The process also makes it possible to precipitate heavy metals for extraction.

INTERNATIONAL SEARCH REPORT

International application No
PCT/NL2010/000112

A. CLASSIFICATION OF SUBJECT MATTER

INV. C07C1/00 C10J3/00 C10L3/00 C12M1/12 C02F3/28
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)

C10G C07C C10J C10B C10K C12M C02F C10L

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)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 630 942 A (STEINER CHARLES G [US]) 20 May 1997 (1997-05-20) cited in the application column 3, line 65 - column 9, line 57; figures -----	1-14
X	FR 2 924 441 A1 (LEBESGUE YVES [FR]) 5 June 2009 (2009-06-05) page 8, line 13 - page 11, line 32 -----	1-14
A	EP 2 113 557 A2 (CHMIEL PROF DR-ING HABIL HORST [DE]) 4 November 2009 (2009-11-04) column 1, lines 9-18 -----	1-14
E	WO 2011/010275 A1 (ONDEO IND SOLUTIONS [FR]; DELPORTE CLAUDE [FR]; MAILLARD SARAH [FR]) 27 January 2011 (2011-01-27) page 8, lines 20-24 -----	1-14



Further documents are listed in the continuation of Box C.



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Date of the actual completion of the international search

9 January 2012

Date of mailing of the international search report

24/01/2012

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/NL2010/000112

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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			WO 2009103866 A2	27-08-2009

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			WO 2011010275 A1	27-01-2011
