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Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- 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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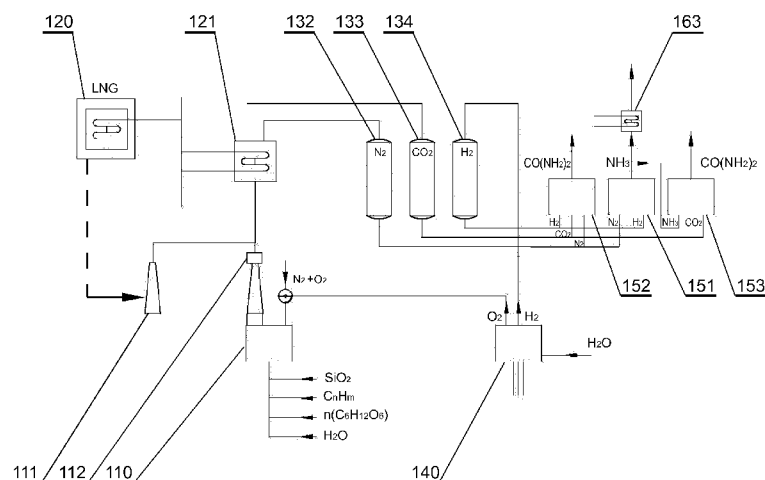
- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

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

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(54) **Title:** A METHOD FOR SYNTHESIZING NITROGENOUS COMPOUNDS FROM ORGANIC WASTE AND A SYSTEM FOR SYNTHESIZING NITROGENOUS COMPOUNDS FROM ORGANIC WASTE

Fig. 1



(57) **Abstract:** A system for synthesizing nitrogenous compounds from organic waste, the system comprising: a mineralization device (110); a catalyzer (112); a freezing-up system (121); an electrolyzer (140); and an ammonia synthesis reactor (151) for synthesizing ammonia from nitrogen and hydrogen, the ammonia synthesis reactor (151) comprising a nitrogen inlet connected to a nitrogen container (132) and a hydrogen inlet connected to a hydrogen container (134).

INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. C01C1/04 C07C273/04
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)

C01C C07C

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)

EPO-Internal, COMPENDEX, INSPEC, CHEM ABS Data, 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 2008/041284 A1 (CALDERON ALBERT [US]) 21 February 2008 (2008-02-21) the whole document	1-6
X	US 2012/125062 A1 (BLANDY CHARLES WILLIAM DOUGLAS [AU]) 24 May 2012 (2012-05-24) paragraph [0001] paragraph [0031] - paragraph [0038] paragraph [0046] - paragraph [0048] paragraphs [0071], [0072], [0085] paragraph [0090] - paragraph [0093] figure 1 ----- -/-	1-6



Further documents are listed in the continuation of Box C.



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Date of the actual completion of the international search

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Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	RONG LAN ET AL: "Ammonia and related chemicals as potential indirect hydrogen storage materials", INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, ELSEVIER SCIENCE PUBLISHERS B.V., BARKING, GB, vol. 37, no. 2, 2 October 2011 (2011-10-02), pages 1482-1494, XP028437610, ISSN: 0360-3199, DOI: 10.1016/J.IJHYDENE.2011.10.004 [retrieved on 2011-10-06] 3. Ammonia production; page 1484 - page 1485 -----	1-6
A	CRAWFORD G A ET AL: "Advances in water electrolyzers and their potential use in ammonia production and other applications", INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, ELSEVIER SCIENCE PUBLISHERS B.V., BARKING, GB, vol. 11, no. 11, 1 January 1986 (1986-01-01), pages 691-701, XP025414028, ISSN: 0360-3199, DOI: 10.1016/0360-3199(86)90137-0 [retrieved on 1986-01-01] -----	1-6

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2016/081544

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