PATENT COOPERATION TREATY
PCT
INTERNATIONAL SEARCH REPORT
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference
TP15003J

FOR FURTHER ACTION
see Form PCT/ISA/220
as well as, where applicable, item 5 below.

International application No.
PCT/KP2015/000039

International filing date (day/month/year)
01 November 2015

(Earliest) Priority Date (day/month/year)
06 September 2015

Applicant
RI Jong Hwa et al

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☑ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report
   a. With regard to the language, the international search was carried out on the basis of:
      ☑ the international application in the language in which it was filed.
      ☐ a translation of the international application into ____________ which is the language of a
translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

   b. ☐ This international search report has been established taking into account the rectification of an obvious mistake authorized
      by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

   c. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (see Box No. II).

3. ☐ Unity of invention is lacking (see Box No. III).

4. With regard to the title,
   ☑ the text is approved as submitted by the applicant.
   ☐ the text has been established by this Authority to read as follows:

   PROCESS FOR PRODUCTION OF SODIUM CYANIDE

5. With regard to the abstract,
   ☑ the text is approved as submitted by the applicant.
   ☐ the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may,
   within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,
   a. ☑ the figure of the drawings to be published with the abstract is Figure No. ____________
      ☑ as suggested by the applicant.
      ☑ as selected by this Authority, because the applicant failed to suggest a figure.
      ☐ as selected by this Authority, because this figure better characterizes the invention.

   b. ☑ none of the figures is to be published with the abstract.
A process for the production of sodium cyanide with urea and sodium carbonate as main raw materials comprises: a) step for blending raw materials; b) step for first-order reaction; c) step for second-order reaction; d) step for centrifugal atomization; e) step for agitating and dissolving; f) step for precipitating and filtering; g) step for vacuum distillation; and h) step for centrifugal separating and drying. High purity (above 98%) of sodium cyanide finished product may be obtained.
**INTERNATIONAL SEARCH REPORT**

**CLASSIFICATION OF SUBJECT MATTER**
C01C 3/10(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

**FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)
C01C 3/-

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)
CNKI, CPRS, WPI, ISI WEB OF KNOWLEDGE: sodium carbonate, Na2CO3, urea, carbamide, sodium cyanate, sodium cyanide, NaCN, NaOCN, NaCN, anthracite coal, deoxidized

**DOCUMENTS CONSIDERED TO BE RELEVANT**

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<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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* Further documents are listed in the continuation of Box C.  

Date of the actual completion of the international search: **12 May 2016**

Date of mailing of the international search report: **06 June 2016**

Name and mailing address of the ISA/CN

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Facsimile No. (86-10)62019451  
Telephone No. (86-10)62085011

Form PCT/ISA/210 (second sheet) (July 2009)
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