Title: PORTABLE ENERGY GENERATION SYSTEMS

Abstract: Portable energy generation systems are disclosed. More particularly, a high-output mobile electrical generator system comprising a radial engine power source providing a highly compact physical format.
**INTERNATIONAL SEARCH REPORT**

**A. CLASSIFICATION OF SUBJECT MATTER**

F02B 63/04(2006.01)1, F02B 75/16(2006.01)1, FO1P 3/06(2006.01)1, F02D 29/06(2006.01)1

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)

F02B 63/04, B60P 3/00, B60P 3/34, H02K 7/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords portable, energy, electric, generator

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>JP 63-149336 U (AICHI CORP) 30 September 1988 See claim and figures 1-3.</td>
<td>1-25</td>
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<td>A</td>
<td>wo 02-097251 A1 (FICHT, REINHOLD) 05 December 2002 See abstract and figures 1-2.</td>
<td>1-25</td>
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<td>A</td>
<td>US 4556247 A (MAHAF EY : JOHN M.) 03 December 1985 See column 2, line 29 - column 3, line 7 and figure 2.</td>
<td>1-25</td>
</tr>
</tbody>
</table>

☐ Further documents are listed in the continuation of Box C ☑ See patent family annex

* Special categories of cited documents
  "A" document defining the general state of the art which is not considered to be of particular relevance
  "E" earlier application or patent but published on or after the international filing date
  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
  "O" document referring to an oral disclosure, use, exhibition or other means
  "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search 19 JULY 2010 (19 07 2010)

Date of mailing of the international search report 20 JULY 2010 (20.07.2010)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seogu, Daejeon 302-701, Republic of Korea

Facsimile No 82-42-472-7140

Authorized officer
Seo, Tae Kwan
Telephone No 82-42-481-5449

Form PCT/ISA/210 (second sheet) (July 2009)
**INTERNATIONAL SEARCH REPORT**

**Box No. II  Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. **Claims Nos**
   - because they relate to subject matter not required to be searched by this Authority, namely

2. **Claims Nos**
   - because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically

3. **Claims Nos**
   - because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

**Box No. III  Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

- Claims 1-21: a system comprising at least one portable electric generator
- Claim 22: a method of increasing the time between overhauls within an aviation-derived engine during use in non-aviation service
- Claims 23-24: a method related to providing standard modular power units capable of producing electrical power
- Claim 25: a method related to reducing vehicular transportation costs associated with the transport of an engine-generator unit

1. **Claims Nos**
   - As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims

2. **Claims Nos**
   - As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee

3. **Claims Nos**
   - As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos

4. **Claims Nos**
   - No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims, it is covered by claims Nos

**Remark on Protest**

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation
- No protest accompanied the payment of additional search fees
<table>
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<tr>
<th>Patent document cited in search report</th>
<th>Publication date</th>
<th>Patent family member(s)</th>
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<tr>
<td>JP 63-149336 U</td>
<td>30.09.1988</td>
<td>None</td>
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<td>DE 10292342 D2</td>
<td>29.04.2004</td>
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<td>EP 1404954 A1</td>
<td>07.04.2004</td>
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<td>US 4556247 A</td>
<td>03.12.1985</td>
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<td>EP 1146213 A2</td>
<td>17.10.2001</td>
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<td>24.05.2006</td>
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<td>23.10.2002</td>
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<td>EP 1146213 B1</td>
<td>03.08.2005</td>
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