DISPLAY AND MANAGEMENT OF EVENTS IN TRANSPORT REFRIGERATION UNITS

The status of a transport refrigeration unit and the load therein is established on a real time and batch time basis by continuously transmitting the cargo temperature or reefer return temperature, and determining conditions such as loading and unloading, open doors, waiting times, etc. This allows apportioning costs between the operator of the transport and the consignee of the cargo.
# INTERNATIONAL SEARCH REPORT

<table>
<thead>
<tr>
<th>International application No.</th>
<th>PCT/US 08/64405</th>
</tr>
</thead>
</table>

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC(8) - G01K 13/00 (2009.01)**

USPC - 62/129

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)

**IPC(8) - G01K 13/00 (2009.01)**

USPC - 62/129

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

USPC - 62/129; 62/125; 62/158; 62/231; 702/108; 702/127; 340/5; search terms below

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

Electronic Databases Searched: Google Scholar; PubWest (US Patents full-text, US PGPPubs full-text, EPO Abstracts, and JPO Abstracts) Search Terms Used: GPS, global, positioning, tractor, trailer, refrigeration, monitoring, freight, tracking, position, transmitting, temperature, time, location, load, cargo, monitor, sensing

## 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>Y</td>
<td>US 5,181,389 A (Hanson et al.) 26 January 1993 (26.01.1993), entire document, esp. abstract; col 1, in 52 to col 2, in 2; col 2, in 3-48.</td>
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<td>Y</td>
<td>US 2002/0001758 A1 (Zarliengo et al.) 23 May 2002 (23.05.2002), entire document, esp. para [0007], [0016], [0038].</td>
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<tr>
<td>A</td>
<td>US 7,221,270 B2 (Chen et al.) 22 May 2007 (22.05.2007), entire document</td>
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<tr>
<td>A</td>
<td>US 6,867,609 B2 (Hsiao et al.) 03 February 2004 (03.02.2004), entire document.</td>
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<td>A</td>
<td>US 6,989,751 B2 (Richards) 24 January 2006 (24.01.2006), entire document.</td>
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</table>

☐ Further documents are listed in the continuation of Box C. ☐

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"A" Special categories of cited documents:

- "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

09 April 2009 (09.04.2009)

Date of mailing of the international search report

24 APR 2009

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

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PCT OSP: 571-272-7724

Form PCT/ISA/210 (second sheet) (April 2007)