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H04L 12/56 (2006.01) *H04W* 4/12 (2009.01)

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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))

[Continued on next page]

(54) Title: USE OF A META LANGUAGE FOR PROCESSING OF AVIATION RELATED MESSAGES

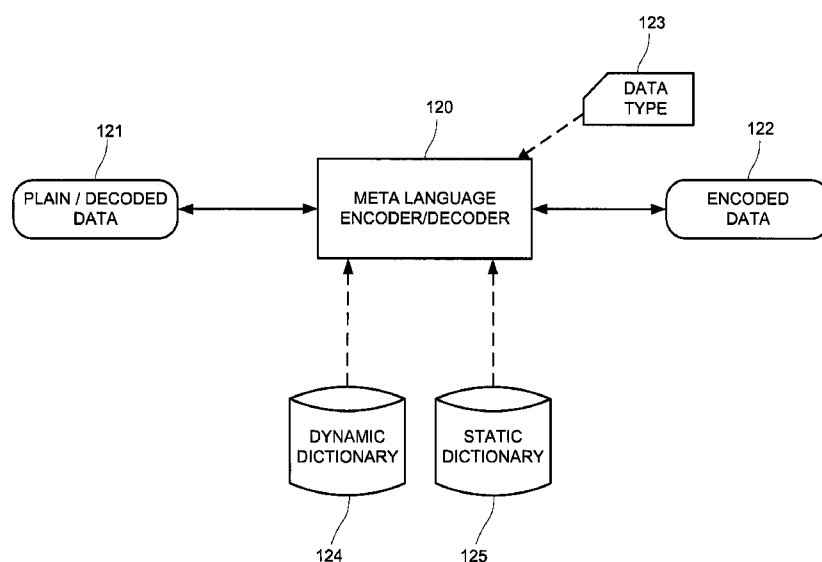


FIG. 9

(57) Abstract: A method for transmitting an encoded aircraft related message comprises receiving an aircraft related text message for encoding, retrieving, based on the aircraft related text message, identity related data being related to the identity of a sender of the message or to the identity of a receiver of the message. The aircraft related text message is processed and an encoded message is generated using a text substitution process which is based on the identity related data. A destination message is derived from the encoded message, the destination message is arranged into at least one data packet, a data signal is generated from the at least one data packet and the data signal is transmitted between an aircraft and a ground based system.



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12 April 2012

A. CLASSIFICATION OF SUBJECT MATTER***H04L 12/58(2006.01)i, H04L 12/56(2006.01)i, H04B 7/185(2006.01)i, H04W 4/12(2009.01)i***

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)

H04L 12/58; H04K 1/00; H04L 9/00

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:transmit, aircraft, ground, message, sms, meta, code, look-up, table

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2008-0214188 A1 (GALY LAURENT et al.) 04 September 2008 abstract, paragraphs [0045]-[0065], paragraphs [0017]-[0030], claims 7-12, figs. 1-2.	1-10, 12-13, 16-48
A		11, 14-15, 49-56
Y	US 2008-0182573 A1 (LAUER BRYAN A. et al.) 31 July 2008 abstract, paragraphs [0007]-[0009], paragraphs [0018]-[0039], claims 1-12, figs. 1-8.	1-10, 12-13, 16-48
A		11, 14-15, 49-56
A	US 2007-0028089 A1 (STEVEN YUKAWA et al.) 01 February 2007 abstract, paragraph [0007], paragraphs [0014]-[0021], paragraphs [0025]-[0032], claims 23-42, figs. 1-3D	1-56
A	US 2007-0021117 A1 (DANIEL BERNARD MCKENNA et al.) 25 January 2007 abstract, paragraphs [0012]-[0035], paragraphs [0056]-[0063], paragraphs [115]-[140], paragraphs [0176]-[0207], claims 79-105, figs. 1-10.	1-56



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

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"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

30 JANUARY 2012 (30.01.2012)

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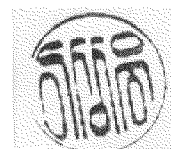
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2011/051555**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:

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ 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. ☐ 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.

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