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— *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))*

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**A. CLASSIFICATION OF SUBJECT MATTER*****H04N 5/44(2011.01)i, H04N 5/04(2006.01)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)

H04N 5/44; H04Q 11/04; H04N 11/02; G09G 1/06

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) &amp; Keywords:stream, frame, synchronization, offset, correct, time

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                         | Relevant to claim No. |
|-----------|----------------------------------------------------------------------------------------------------------------------------|-----------------------|
| A         | US 2006-0012540 A1 (JAMES LOGIE et al.) 19 January 2006<br>See the abstract, paragraphs [0063]-[0076], claim 1 and FIG. 1. | 1-29                  |
| A         | US 2005-0083437 A1 (KAZUYUKI UCHIDA et al.) 21 April 2005<br>See the abstract, claim 1 and FIG. 1.                         | 1-29                  |
| A         | KR 10-0303970 B1 (MICRON TECHNOLOGY, INC.) 29 September 2001<br>See the abstract, claim 1 and FIG. 2.                      | 1-29                  |



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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"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

"&amp;" document member of the same patent family

Date of the actual completion of the international search

27 OCTOBER 2011 (27.10.2011)

Date of mailing of the international search report

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2011/025199**

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|-------------------------------------------|---------------------|----------------------------|---------------------|
| US 2006-0012540 A1                        | 19.01.2006          | GB 0513529 D0              | 10.08.2005          |
|                                           |                     | GB 2415852 A               | 04.01.2006          |
|                                           |                     | GB 2415852 B               | 14.07.2010          |
|                                           |                     | US 7506240 B2              | 17.03.2009          |
| US 2005-0083437 A1                        | 21.04.2005          | CN 100593941 C             | 10.03.2010          |
|                                           |                     | CN 101202828 A             | 18.06.2008          |
|                                           |                     | CN 101202828 C0            | 18.06.2008          |
|                                           |                     | CN 1607815 A               | 20.04.2005          |
|                                           |                     | CN 1607815 C0              | 20.02.2008          |
|                                           |                     | JP 2005-123789 A           | 12.05.2005          |
|                                           |                     | US 2007-0109444 A1         | 17.05.2007          |
|                                           |                     | US 7176978 B2              | 13.02.2007          |
| KR 10-0303970 B1                          | 29.09.2001          | US 7812886 B2              | 12.10.2010          |
|                                           |                     | JP 03-020008 B2            | 14.01.2000          |
|                                           |                     | JP 10-510410 A             | 06.10.1998          |
|                                           |                     | US 05592488A A             | 07.01.1997          |
|                                           |                     | US 05748635A A             | 05.05.1998          |
|                                           |                     | WO 96-41485 A3             | 19.12.1996          |