



(51) International Patent Classification:
H04N 7/26 (2006.01)

(21) International Application Number:
PCT/US2012/026376

(22) International Filing Date:
23 February 2012 (23.02.2012)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
13/075,078 29 March 2011 (29.03.2011) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

[Continued on next page]

(54) Title: APPARATUS AND METHODS FOR SELECTIVE BLOCK DECODING

(57) Abstract: Apparatus and methods for selective decoding of received code blocks are disclosed. An example method includes receiving a code block, determining a code block quality indicator for the received code block, and attempting to decode the received code block if the code block quality indicator is greater than or equal to a threshold. If the code block quality indicator is less than the threshold, the received code block is discarded without decoding attempts. The threshold may be a static or dynamic threshold.

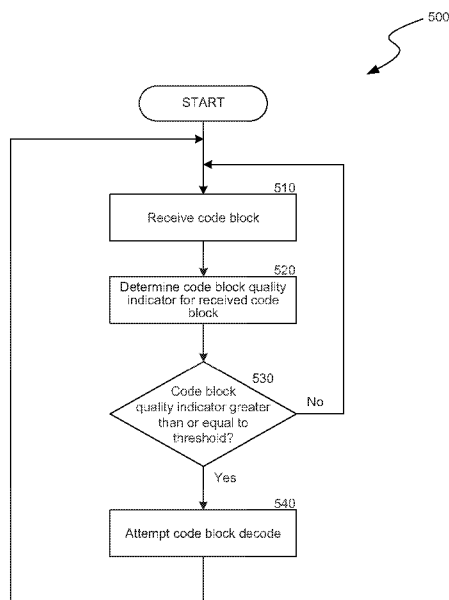


FIG. 5



— *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))*

(88) Date of publication of the international search report:
22 November 2012

A. CLASSIFICATION OF SUBJECT MATTER**H04N 7/26(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 7/26; H03M 13/22; H03M 13/05; H04M 1/00; H04L 1/20; G06F 11/00

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: decode, code, block, threshold

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 05926489A A (DANIEL A. LUTHI et al.) 20 July 1999 See column 6, line 37 - column 7, line 15 and figure 3.	1-20
A	US 6526531 B1 (XIAO-AN WANG) 25 February 2003 See column 5, line 63 - column 6, line 10 and figure 4.	1-20
A	US 2009-0049358 A1 (JALLOUL LOUAY et al.) 19 February 2009 See [0024] and figure 2.	1-20
A	WO 2007-087511 A2 (MOTOROLA INC.) 02 August 2007 See [0019]-[0076].	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"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

25 SEPTEMBER 2012 (25.09.2012)

Date of mailing of the international search report

26 SEPTEMBER 2012 (26.09.2012)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
189 Cheongsu-ro, Seo-gu, Daejeon Metropolitan
City, 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/026376

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 05926489A A	20.07.1999	EP 0844758 A2 EP 0844758 A3 JP 10-215189 A	27.05.1998 28.11.2001 11.08.1998
US 6526531 B1	25.02.2003	None	
US 2009-0049358 A1	19.02.2009	US 8086928 B2	27.12.2011
WO 2007-087511 A2	02.08.2007	BR P10707213A2 CN 102017458 A EP 1811711 A1 EP 2280506 A2 KR 10-2008-0097186 A WO 2007-087511 A3	26.04.2011 13.04.2011 25.07.2007 02.02.2011 04.11.2008 03.04.2008