

(51) International Patent Classification:
G06F 17/14 (2006.01) **H04N 7/26** (2006.01)(21) International Application Number:
PCT/US2010/037513(22) International Filing Date:
4 June 2010 (04.06.2010)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/184,656 5 June 2009 (05.06.2009) US
61/219,887 24 June 2009 (24.06.2009) US
12/788,625 27 May 2010 (27.05.2010) US(71) Applicant (for all designated States except US): **QUALCOMM Incorporated** [US/US]; ATTN: International IP Administration, 5775 Morehouse Drive, San Diego, California 92121-1714 (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, RO, RS, RU, 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, 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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

(54) Title: 4X4 TRANSFORM FOR MEDIA CODING

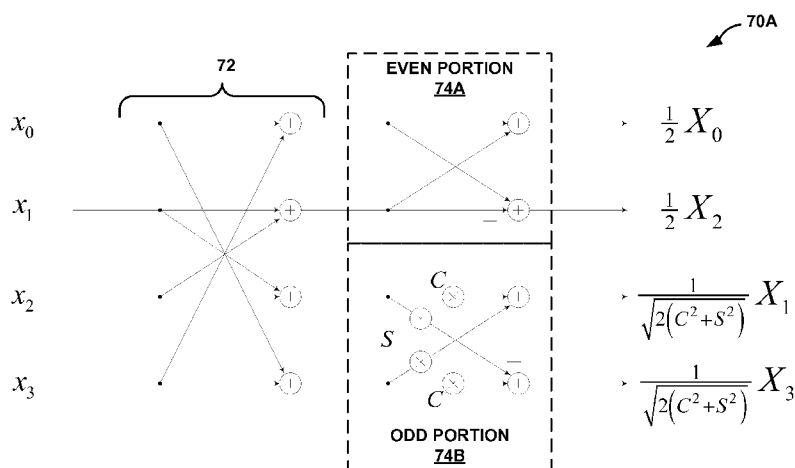


FIG. 4A

(57) Abstract: In general, techniques are described that provide for 4x4 transforms for media coding. A number of different 4x4 transforms are described that adhere to these techniques. As one example, an apparatus includes a 4x4 discrete cosine transform (DCT) hardware unit. The DCT hardware unit implements an orthogonal 4x4 DCT having an odd portion that applies first and second internal factors (C, S) that are related to a scaled factor (?) such that the scaled factor equals a square root of a sum of a square of the first internal factor (C) plus a square of the second internal factor (S). The 4x4 DCT hardware unit applies the 4x4 DCT implementation to media data to transform the media data from a spatial domain to a frequency domain. As another example, an apparatus implements a non-orthogonal 4x4 DCT to improve coding gain.

**Published:****(88) Date of publication of the international search report:**

18 May 2012

- *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))*

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2010/037513

A. CLASSIFICATION OF SUBJECT MATTER

INV. G06F17/14 H04N7/26
ADD.

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)

G06F H04N

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

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

EPO-Internal, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	JOSHI R ET AL: "Simplified transforms for extended block sizes", ITU-T SG16 Q6 (VCEG), DOCUMENT VCEG-AL30, 38TH VCEG MEETING, 6-10 JULY 2009, GENEVA, CH	1-23
A,P	3 July 2009 (2009-07-03), XP030003711, Retrieved from the Internet: URL:http://wftp3.itu.int/av-arch/video-sit e/0906_LG/VCEG-AL30.zip the whole document ----- -/--	24-57



Further documents are listed in the continuation of Box C.



See patent family annex.

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Date of the actual completion of the international search

29 March 2012

Date of mailing of the international search report

05/04/2012

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2010/037513

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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INTERNATIONAL SEARCH REPORT

International application No

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