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(71) Applicant: **QUALCOMM INCORPORATED** [US/US]; ATTN: International IP Administration, 5775 Morehouse Drive, San Diego, California 92121-1714 (US).

(72) Inventors: **CHONG, In Suk**; 5775 Morehouse Drive, San Diego, California 92121-1714 (US). **YU, Yang**; 5775 Morehouse Drive, San Diego, California 92121-1714 (US). **WANG, Xianglin**; 5775 Morehouse Drive, San Diego, California 92121-1714 (US). **KARCZEWICZ, Marta**; 5775 Morehouse Drive, San Diego, California 92121-1714 (US).

(74) Agents: **ABUMERI, Mark M.** et al.; Knobbe Martens Olson & Bear LLP, 2040 Main Street, Fourteenth Floor, Irvine, California 92614 (US).

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(54) Title: SYSTEMS AND METHODS FOR LOW COMPLEXITY FORWARD TRANSFORMS USING ZEROED-OUT COEFFICIENTS

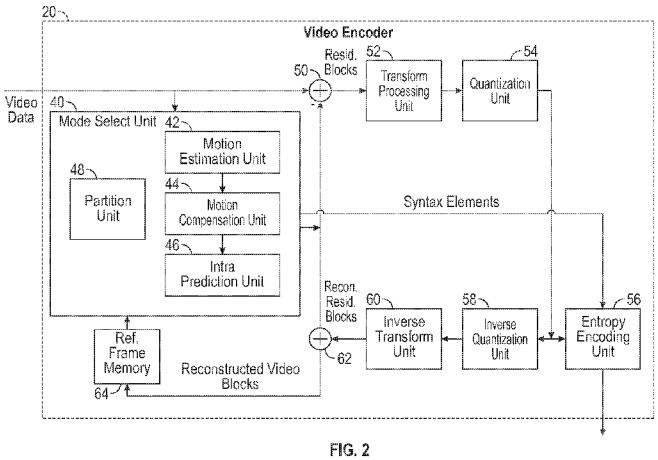


FIG. 2

(57) Abstract: Systems and methods for low complexity forward transforms using zeroed-out coefficients are described herein. One aspect of the subject matter described in the disclosure provides a video encoder comprising a memory configured to store a video block. The video encoder further comprises a processor in communication with the memory. The processor is configured to determine a full power value of the video block. The processor is further configured to determine a reduced transform coefficient matrix, wherein the reduced transform coefficient matrix comprises an inner region of zero or non-zero values of the same inner region of a full transform coefficient matrix and an outer region of zero values, wherein the reduced transform coefficient matrix and the full transform coefficient matrix have the same size. The processor is further configured to determine a partial power value of the video block using the reduced transform coefficient matrix. The processor is further configured to transform the video block from a pixel domain to a coefficient domain using the reduced transform coefficient matrix based on the full power value and partial power value. The processor is further configured to encode the transformed video block.

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B. FIELDS SEARCHED

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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 practicable, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2012/045041 A1 (QUALCOMM INC [US]; SOLE ROJALS JOEL [US]; JOSHI RAJAN L [US]; KARCZEWI) 5 April 2012 (2012-04-05) abstract paragraphs [0006] - [0008], [0025], [0034], [0039], [0066] - [0072], [0082] - [0094], [0105] - [0106] figures 2, 3A, 3B	1-30

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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Mayer, Claudia

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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