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(71) Applicant: **FACEBOOK TECHNOLOGIES, LLC**

[US/US]; c/o Rimon Law/Steven Colby, 420 West Main Street, Suite 101B, Boise, Idaho 83702 (US).

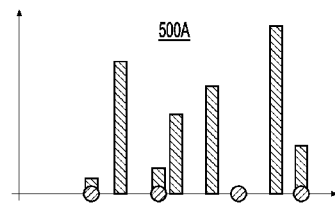
(72) Inventors: **WEBB, Richard**; 1601 Willow Road, Menlo Park, California 94025 (US). **CHANG, Cheng**; 1601 Willow Road, Menlo Park, California 94025 (US). **GREENE, Richard Lawrence**; 1601 Willow Road, Menlo Park, California 94025 (US). **ZHOU, Zhi**; 1601 Willow Road, Menlo Park, California 94025 (US).

(74) Agent: **COLBY, Steven** et al.; Rimon Law, 420 West Main Street, Suite 101B, Boise, Idaho 83702 (US).

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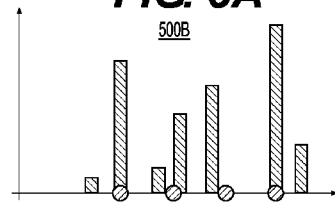
AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,

(54) Title: RATE CONTROLLED IMAGE AND TEXTURE DATA COMPRESSION



DISTORTION (SAE) = 620

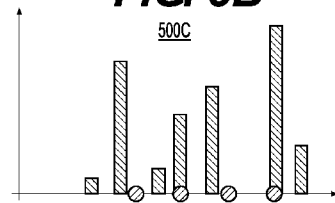
FIG. 5A



DISTORTION (SAE) = 390

← BEST CHOICE

FIG. 5B



DISTORTION (SAE) = 474

FIG. 5C

(57) Abstract: In one embodiment, a computing system may determine a quantization range having a first quantization endpoint and a second quantization endpoint. While fixing the second quantization endpoint to an initial value determined based on the color range, one of a plurality of first candidate values for the first quantization endpoint is selected based on a plurality of corresponding first quantization errors. While fixing the first quantization endpoint to the selected first candidate value, one of a plurality of second candidate values for the second quantization endpoint is selected based on a plurality of corresponding second quantization errors. The computing system may define quantization levels corresponding to the bit depth using the quantization range defined by the first quantization endpoint and the second quantization endpoint, and then encode the one or more color components of the pixel region using the quantization levels.



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B. FIELDS SEARCHED
 Minimum documentation searched (classification system followed by classification symbols)
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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)
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>Daniel Oom: "Real-Time Adaptive Scalable Texture Compression for the Web", Master's thesis in Computer Science and Engineering, 1 January 2016 (2016-01-01), pages i-iv, 1-33, XP055502827, G&#246;teborg, Sweden Retrieved from the Internet: URL: http://www.cse.chalmers.se/~uffe/xjobb/Daniel%20Oom.pdf [retrieved on 2018-08-28] sections 3 and 4.1</p> <p align="center">----- -/--</p>	1-15



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Name and mailing address of the ISA/
 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040,
 Fax: (+31-70) 340-3016

Authorized officer

Kontopodis, D

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>Van Waveren J.M.P: "Real-Time DXT Compression", , 20 May 2006 (2006-05-20), pages 1-43, XP055875412, Retrieved from the Internet: URL:https://fdocuments.net/document/real-time-dxt-compression.html [retrieved on 2021-12-22] section 2</p> <p style="text-align: center;">-----</p>	1-15
X	<p>PAVEL KRAJCEVSKI ET AL: "FastC: Accelerated Fixed-Rate Texture Encoding", INTERACTIVE 3D GRAPHICS AND GAMES, ACM, 2 PENN PLAZA, SUITE 701 NEW YORK NY 10121-0701 USA, 21 March 2013 (2013-03-21), pages 137-144, XP058013946, DOI: 10.1145/2448196.2448218 ISBN: 978-1-4503-1956-0 sections 1, 3.2, 3.5, 3.6</p> <p style="text-align: center;">-----</p>	1-15