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(54) **Title:** STREAMING PORTIONS OF A QUILTED GRAPHIC 2D IMAGE REPRESENTATION FOR RENDERING INTO A DIGITAL ASSET

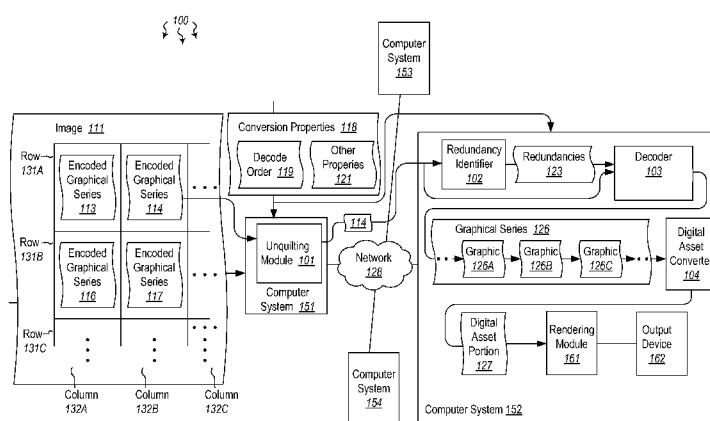


Figure 1

(57) **Abstract:** The present invention extends to methods, systems, and computer program products for streaming portions of a quilted graphic 2D image representation for rendering into a digital asset. One or more digital assets (e.g., audio data, video data, geospatial data, etc.) are encoded as series of graphical representations and quilted into a quilted graphic 2D image representation. Encoding takes redundancies (and possibly also levels of resolution) within successive graphic image representations into account, reducing (potentially substantially) resource consumption when storing and transmitting digital assets. Portions of the quilted graphic 2D image representation can be unquilted and streamed to other computer systems. The streamed data can be decoded at the other computer systems to recreate digital asset portions. Decoding can take the redundancies into account to recreate full (or lower resolution) representations of digital assets from the encoded graphical representations quilted into the quilted graphic 2D image representation.

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G01B 11/26, G01C 1/00 (2012.01)

USPC - 356/141.5

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)

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USPC: 356/141.5

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

USPC: 356/12, 601; 382/154, 282; 345/419, 654, 665, 680; 348/42, 64, 185, E13.002, E13.005, E13.014, E13.015, E13.057, E13.074; 359/462375/240.26, E7.022, E7.227 (keyword limited; terms below)

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

pubWEST(USPT,PGPB,EPAB,JPAB,USOCR); Google(Web); Search terms used: encode decode one single sequence order image frame picture stitch quilted matrix video streaming network RTSP representation sub-image patchwork mosaic row column

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/0008240 A1 (BANERJI et al.) 13 January 2005 (13.01.2005) entire document, especially Abstract; Figs. 1, 4, 5, 16; para [0040], [0045], [0046], [0083]-[0088], [0096], [0115], [0144]-[0160], [0182], [0191]-[0194], [0221], [0279]-[0283]	1-15, 17, 18
Y		16, 19, 20
Y	US 2009/0002480 A1 (CUTLER) 01 January 2009 (01.01.2009) entire document, especially Abstract; para [0017], [0050]	16, 20
Y	US 2009/0233545 A1 (SUTSKOVER et al.) 17 September 2009 (17.09.2009) entire document, especially Abstract; para [0026], [0029]	19
A	US 2009/0278844 A1 (CHANG et al.) 12 November 2009 (12.11.2009) entire document	1-20
A	US 2007/0206029 A1 (WEI et al.) 06 September 2007 (06.09.2007) entire document	1-20

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"O" document referring to an oral disclosure, use, exhibition or other means

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"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

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