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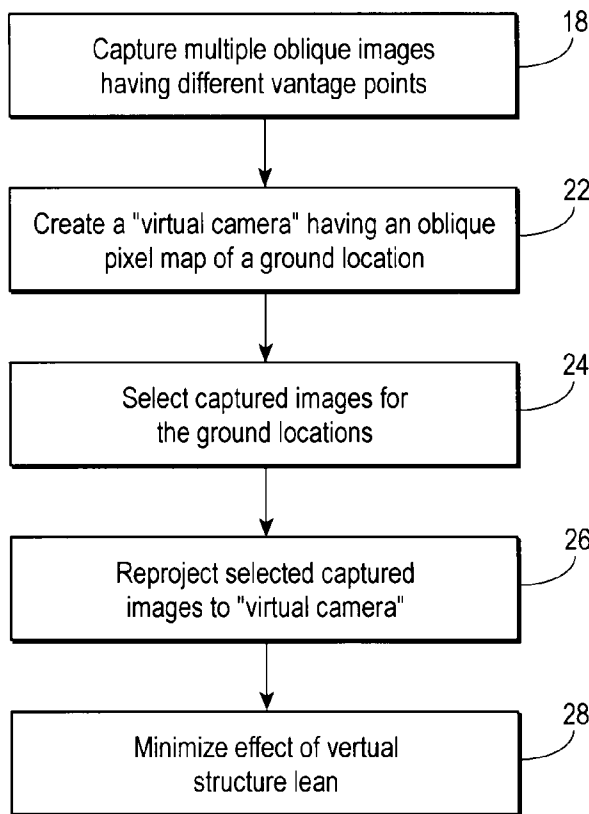
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(54) **Title:** MOSAIC OBLIQUE IMAGES AND METHODS OF MAKING AND USING SAME



(57) **Abstract:** A method for creating an oblique-mosaic image from a plurality of source images is disclosed. Initially, a desired area to be imaged and collected into an oblique-mosaic image is identified (18) and then a mathematical model of a sensor of a virtual camera (20) is created (22), where the virtual camera has an elevation greater than an elevation of the area to be imaged. The mathematical model has an oblique-mosaic pixel map for the sensor of the desired area. A surface location is determined for each pixel included in the oblique mosaic pixel map (24), and at least one source oblique image pixel of the area to be imaged is reprojected for each pixel included in the oblique-mosaic pixel map to thereby create an oblique-mosaic image of the desired geographical area (26). Further, techniques for compensating for building lean in oblique-mosaic images are disclosed (28).

**Fig. 2**

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**USPC:** 382/284,285,294;345/629,646  
 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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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)  
 General internet search engine.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	WO 99/18732 A1 (CIAMPA, J.) 15 April 1999 (15.04.1999), page 7 to page 12.	1 - 4,6,7, 11 - 17,19,20, 24- 26 ----- 8,21
Y	WO 2005/088251 A1 (INTERGRAPH SOFTWARE TECH CO.) 22 Sept 2005 (22.09.2005) paragraph [0033]	8,21
Y	US 2004/0105090 A1 (SCHULTZ et al.) 03 June 2004 (03.06.2004) paragraphs [0004] - [0015], [0051], [0064] - [0067], [0072]	1,3,12,13,14,16,25,26
Y,P	US 2007/0024612 A1 (BALFOUR) 01 February 2007 (01.02.2007), paragraphs [0044] to [0053]	1,11-14,24-26
X	ZHU, et al. 'Mosaic-Based 3D Scene Representation and Rendering.' In: IEEE International Conference on Image Processing, 2005. ICIP 2005. IEEE, 2005, Vol. 1. Article sections II, III and IV	1,2,3,13,14,15,16,26

Further documents are listed in the continuation of Box C.       See patent family annex.

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