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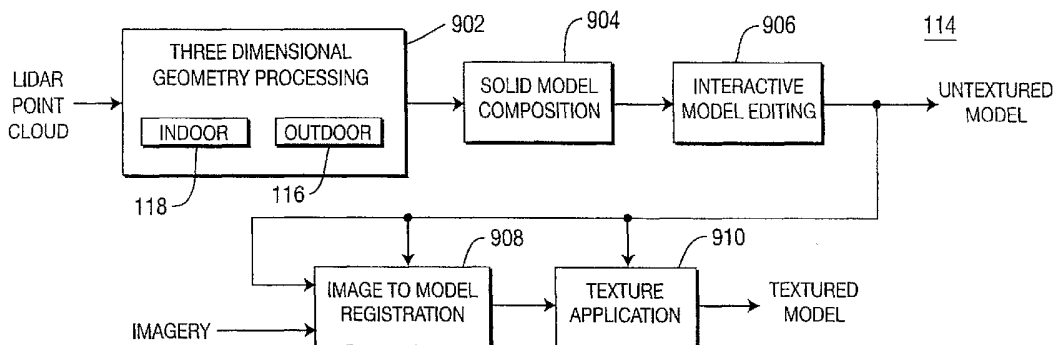
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR PERFORMING THREE-DIMENSIONAL COMPUTER MODELING



(57) Abstract: A method and apparatus for automatically generating a three-dimensional computer model from a "point cloud" of a scene produced by a laser radar (LIDAR) system (114 in Figure 9). Given a point cloud of an indoor or outdoor scene, the method extracts certain structures from the imaged scene, i.e., ceiling, floor, furniture, rooftops, ground, and the like, and models (904) these structures with planes and/or prismatic structures to achieve a three-dimensional computer model (902) of the scene. The method may then add photographic and/or synthetic texturing to the model to achieve a realistic model.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/29313

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G09G 5/00;G06T 1/00,15/00,15/30,15/40,17/00

USPC: 345/156-160,418-428

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)

U.S. : 345/156-160, 418-428

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0041327 A1 (HILDRETH et al) 11 April 2002, Figures 1-15; Paragraph 0079-0166.	1-11

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

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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