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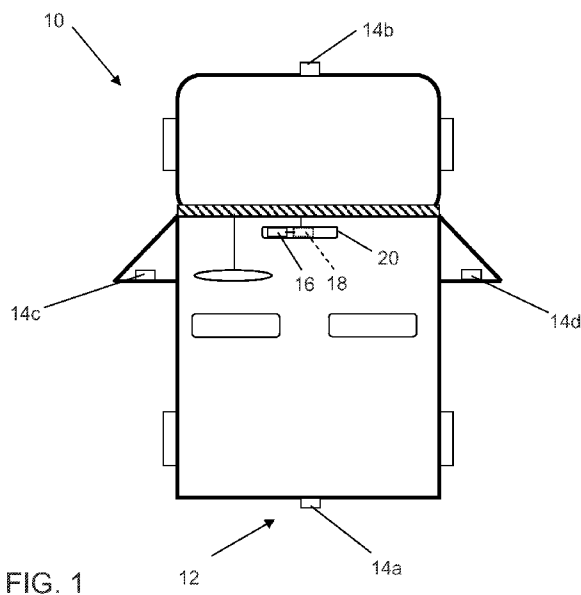
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(54) Title: VEHICLE VISION SYSTEM WITH CUSTOMIZED DISPLAY



(57) Abstract: A vehicle vision system includes a plurality of cameras having respective fields of view exterior of the vehicle. A processor is operable to process image data captured by the cameras and to generate images of the environment surrounding the vehicle. The processor is operable to generate a three dimensional vehicle representation of the vehicle. A display screen is operable to display the generated images of the environment surrounding the vehicle and to display the generated vehicle representation of the equipped vehicle as would be viewed from a virtual camera viewpoint. At least one of (a) a degree of transparency of at least a portion of the displayed vehicle representation is adjustable by the system, (b) the vehicle representation comprises a vector model and (c) the vehicle representation comprises a shape, body type, body style and/or color corresponding to that of the actual equipped vehicle.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US12/68331

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04N 5/228, 7/18 (2013.01)

USPC - 348/148; 701/96; 340/435

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 Classification(s): 340/932.2, 988, 990, 435; 348/148, 340; 701/96, 300

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)

MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); DialogPro; IEEE; Google/Google Scholar; Search Terms Used: camera*, vision, exterior, view, image, vehicle, car, truck, automobile, three dimensional, 3 dimensional, 3D, virtual, bird's eye, representation, model

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7,307,655 B1 (OKAMOTO S. et al.) December 11, 2007, abstract; figures 1, 7, 51, 52(a), 52 (b), 53(a), 53(b); column 6, lines 12-16; column 13, lines 24-51; column 15, lines 1-19; column 13, lines 24-51; column 23, lines 23-48; column 28, lines 52-67; column 31, lines 24-28; column 32, lines 45-46; column 34, lines 33-43; column 4, lines 22-67; column 48, lines 39-49; claim 1	1-4, 7, 11-15
Y		5, 6, 8-10
Y	US 2010/0328060 A1 (CHEN D. et al.) December 30, 2010, abstract; paragraph [0023]	5, 6
Y	US 2005/0225645 A1 (KAKU T.) October 13, 2005, paragraph [0049]	8
Y	WO 2009/126748 A2 (DEB S. et al.) October 15, 2009, paragraph [0050]	9, 10

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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