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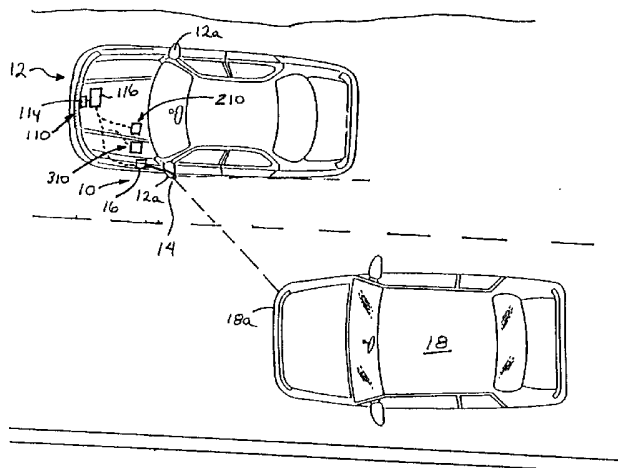
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(54) Title: OBJECT DETECTION SYSTEM FOR VEHICLE



(57) Abstract: An imaging system (10) for a vehicle (12) includes an imaging sensor (14) and a control (16). The imaging sensor is operable to capture an image of a scene occurring exteriorly of the vehicle. The control receives the captured image, which comprises an image data set representative of the exterior scene. The control may apply an edge detection algorithm to a reduced image data set of the image data set. The reduced image data set is representative of a target zone of the captured image. The control may be operable to process the reduced image data set more than other image data, which are representative of areas of the captured image outside of the target zone, to detect objects present within the target zone. The imaging system may be associated with a side object detection system, a lane change assist system, a lane departure warning system and/or the like.



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B. FIELDS SEARCHED

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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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	EP 0,354,561 A2 (Asanuma, Yoshinobu et al) 14 February 1990 (14.02.90), Fig. 1.	1,2,6-10,14-17,20-26,29-33 ----- 3-5,11-13,18,19,27,28,39,40
X --- Y	US 6,201,236 B1 (Juds) 13 March 2001 (13.3.2001), Fig. 7.	34-38,41-49 ----- 3-5,18,19,27,28,39,40
X	US 6,269,308 B1 (Kodaka et al.) 31 July 2001 (31.7.2001), Fig. 1,2,5.	50-53
X	JP 11-213155 A (Oike Tatusya et al.) 06 August 1999 (06.08.1999), Fig. 5, Paragraph 0038, 0046-0048.	54-57
X --- Y	US 6,081,206 A (Kielland) 27 June 2000 (27.6.2000), Fig. 1,2.	58-61 ----- 11-13



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"O" document referring to an oral disclosure, use, exhibition or other means	
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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.
A, P	US 6,449,383 B1 (Oike et al) 10 September 2002 (10.09.2002).	54-57