



US008643724B2

(12) **United States Patent**
Schofield et al.

(10) **Patent No.:** **US 8,643,724 B2**
(45) **Date of Patent:** **Feb. 4, 2014**

(54) **MULTI-CAMERA VISION SYSTEM FOR A VEHICLE**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(21) Appl. No.: **13/800,691**

(Continued)

(22) Filed: **Mar. 13, 2013**

Primary Examiner — Andy Rao

(65) **Prior Publication Data**

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US 2013/0194426 A1 Aug. 1, 2013

Related U.S. Application Data

(57) **ABSTRACT**

(63) Continuation of application No. 12/688,146, filed on Jan. 15, 2010, which is a continuation of application No. 12/496,357, filed on Jul. 1, 2009, now Pat. No. 8,462,204, which is a continuation of application No. 11/122,880, filed on May 5, 2005, now Pat. No. 7,561,181, which is a continuation of application No. 10/324,679, filed on Dec. 20, 2002, now Pat. No. 6,891,563, which is a continuation of application No. 08/952,026, filed as application No. PCT/US96/07382 on May 22, 1996, now Pat. No. 6,498,620.

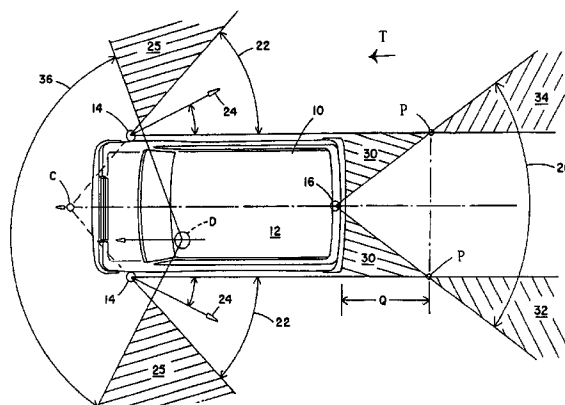
A multi-camera vision system for a vehicle includes first, second and third image capture devices disposed at respective vehicle portions. The first image capture device field of view overlaps with the third image capture device field of view defining a first overlap zone, and the second image capture device field of view overlaps with the third image capture device field of view defining a second overlap zone. Responsive to processing by an image processor of received image data, a synthesized image is generated without duplication of objects present in the first overlap zone and in the second overlap zone. The synthesized image approximates a view as would be seen by a virtual camera at a single location exterior of the vehicle, and is displayed by a single display screen of a reconfigurable display device that is viewable by a driver of the vehicle when normally operating the vehicle.

(51) **Int. Cl.**
H04N 7/18 (2006.01)

(52) **U.S. Cl.**
USPC **348/148**; 348/113; 348/115

(58) **Field of Classification Search**
USPC 348/111–115, 148
See application file for complete search history.

86 Claims, 13 Drawing Sheets



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