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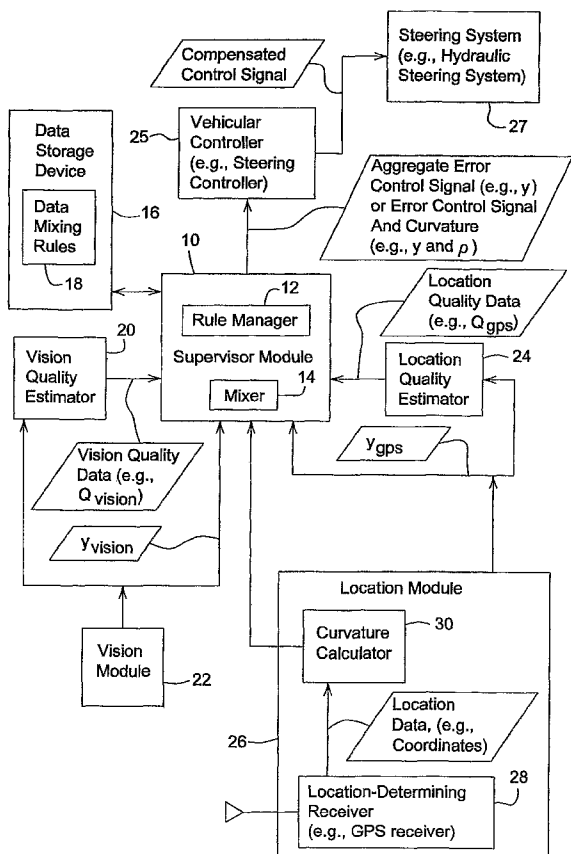
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[Continued on next page]

(54) Title: VISION-AIDED SYSTEM AND METHOD FOR GUIDING A VEHICLE



(57) Abstract: A method and system for guiding a vehicle comprises a location determining receiver (28) for collecting location data for the vehicle. A vision module (22) collects vision data for the vehicle. A location quality estimator (24) estimates the location quality data for the location data during an evaluation time window. A vision module (22) estimates vision quality data for the vision data during the evaluation time window. A supervisor module (10) selects a mixing ratio for the vision data and location data (or error signals associated therewith) based on the quality data.

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| <b>B. FIELDS SEARCHED</b><br><br>Minimum documentation searched (classification system followed by classification symbols)<br>U.S. : 700/245,258,259; 701/23,24,25,28,50; 901/1<br><br>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched<br>West<br><br>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)<br>NPL |  |                       |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>   |  |                       |
| Category *  | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
| A   | US 6278918 B1 (DICKSON et al.), 21 August 2001 (21.08.2001), see entire cited document   | 1-26                  |
| A   | US 6285930 B1(DICKSON et al.), 21 August 2001 (21.08.2001), see entire cited document  | 1-26                  |
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