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Certification

Park IP Translations

This is to certify that the attached translation is, to the best of my knowledge and belief, a true and accurate translation from Japanese into English of the patent that is entitled: Predicted Path Display Apparatus for Vehicles

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Park Case # 43542



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 PREDICTED PATH DISPLAY APPARATUS FOR VEHICLES
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Specification

1. Title of Invention

PREDICTED PATH DISPLAY APPARATUS FOR VEHICLES

- 2. Claims
- an image in a field of rear vision, or a field of lateral rear vision and a predicted path are displayed on a screen at the time of reverse travel of a vehicle, characterized by a camera for photographing a field of rear vision, or a field of lateral rear vision, a steering sensor for detecting a steering angle of a steering wheel, an image processing device for storing a predicted path corresponding to a steering angle of a steering wheel at the time of reverse travel and reading an image of a predicted path on the basis of a signal from the steering sensor at the time of reverse travel of a vehicle, and a display device for superposing and displaying a projected image by the camera and an image of a predicted path by the image processing device.
- (2) The predicted path display apparatus for vehicles, according to claim 1, wherein a profile line of a vehicle is added to an image of a predicted path .
- Detailed Description of the Invention
 (Industrially Applicable Field)

The present invention relates to a display apparatus for



displaying, as a projected image by a video camera, a field of rear vision, or a field of lateral rear vision at the time of reverse travel of a vehicle, which constitutes a blind spot, and more specifically to a predicted path display apparatus for vehicles, in which a predicted path of a vehicle is superposed on a projected image of a field of vision.

(Prior Art)

When driving a vehicle a driver can directly grasp surrounding in a forward direction,

circumstances along a predicted path in a field of vision,

and thus confirmation of safety can be adequately performed

However, the rear area and lateral

rear area at the time of reverse travel are in many cases not in the field of vision of a driver. Therefore, it is necessary to compensate for the field of vision with the use of a fender mirror or a rearview mirror.

In particular, there are many dead spots in a field of rear vision, or a field of lateral rear vision for a driver on a vehicle, and specifically, the larger the vehicles are such as trucks, buses, or the like, the more difficult it is to reduce dead spots only with a mirror.

Accordingly,

the use of a TV camera is conceivable in order to perceive a field of rear vision, and in a recent example, a camera for ensuring a field of rear vision is installed in large-sized vehicles, such as buses or the like, so as to easily afford confirmation of safety at the time of reverse travel.



(Problems to be Solved by the Invention)

Because a field of vision from a position of a camera is different from a field of rear vision as seen from a driver's seat, however, there is involved a problem that the relationship between the operation of driving and driving behavior is hard to grasp from the screen. Further, due to limits on the angle of view of a camera, the operation of driving while seeing a screen is actually put in a considerably difficult situation.

It, is an object of the invention to obtain an image of (a field of rear vision and a field of lateral rear vision with the use of a camera, so as display the image in a manner

that is cognitively familiar in driving.

1.

(Measure for Solving the Problems)

Therefore, the invention provides a predicted path display apparatus for vehicles, in which an image in a field of rear vision, or a field of lateral rear vision and a predicted path are displayed on a screen at the time of reverse /8 travelofavehicle, characterized by a camera for photographing a field of rear vision, or a field of lateral rear vision, a steering sensor for detecting a steering angle of a steering wheel, an image processing device for storing an image of a predicted path corresponding to a steering angle of a steering wheel at the time of reverse travel and reading an image of a predicted path on the basis of a signal from the steering sensor at the time IS



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