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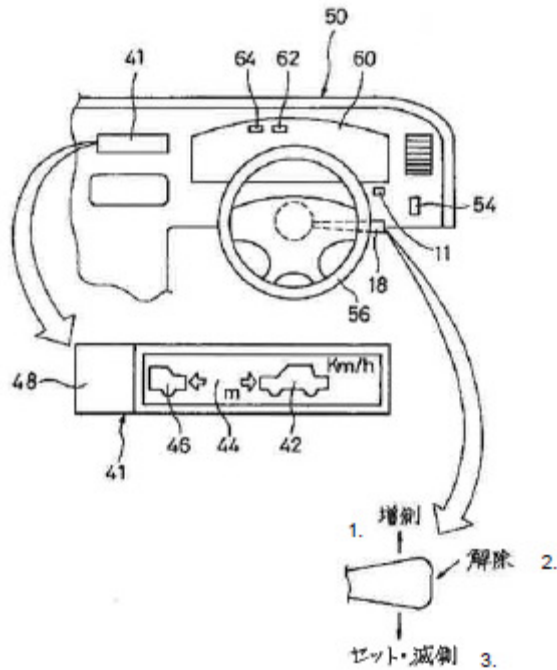
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(54) [Title of the Invention] Display Device in Cruise Control Device for Vehicles

(57) [Summary]

[Object] To be able to detect control contents of following cruise control or constant-speed cruise control in a cruise control device for vehicles that carries out the following cruise control for controlling the vehicle speed so that the distance between a vehicle and a preceding vehicle may be a prescribed distance and the constant-speed cruise control for traveling at a set vehicle speed if there is no preceding vehicle.

[Constitution] The display device in a cruise control device is provided with a display means (41) for displaying a set vehicle speed at the position where a driver of a vehicle can visually recognize the set vehicle speed when a set vehicle speed has been set.



[Key]

1. Increase side
2. Cancellation
3. Set/decrease side

[Scope of Patent Claims]

[Claim 1] A cruise control device for vehicles provided with a following cruise control means for measuring the distance between a vehicle and a preceding vehicle by a distance measuring means between vehicles and controlling the vehicle speed so that the measured distance between the vehicles may be a prescribed distance, and a constant-speed cruise control means for allowing a

vehicle to travel at a set vehicle speed when said preceding vehicle is not detected, said display device in a cruise control device for vehicles, characterized by being provided with a display means for displaying said set vehicle speed at a position where a driver of said vehicle can visually recognize said set vehicle speed when said set vehicle speed has been set.

[Claim 2] The display device in a cruise control device for vehicles of Claim 1, characterized in that said distance measuring means between vehicles includes a visual recognition function of said preceding vehicle; and said display means displays the existence of said preceding vehicle which is recognized by said distance measuring means between vehicles, said distance between the vehicles, and an approach state to said preceding vehicle when said distance between the vehicles is a prescribed distance or shorter.

[Detailed Description of the Invention]

[0001]

[Field of Industrial Application] The present invention relates to a cruise control device for vehicles. Specifically, the present invention relates to a display device of control contents during cruise control.

[0002]

[Prior Art] To lighten the driving operation of automobiles, a constant-speed cruise device (cruise control system, etc.) for constant-speed cruise control is put into practice, and a distance control device between vehicles for following cruise control is developed. In a vehicle mounted with the constant-speed cruise device, if a set switch is set, even if a foot is separated from an accelerator pedal, a set vehicle speed is maintained during traveling. The set vehicle speed can be changed by the operation of an operation switch, and if a driver steps on a brake pedal, the operation is canceled.

[0003] On the other hand, in the vehicle mounted with the distance control device between vehicles, if the set switch is pressed, a set distance between vehicles is calculated from the vehicle speed of a driver's vehicle at that time, and the distance between the present vehicle and the preceding vehicle is detected by a device (camera, radar, etc.) for measuring the distance between vehicles, and an engine output and a brake are controlled so that the distance between the present vehicle and the preceding vehicle may be a set distance between the vehicles. Thereby, the vehicle travels while following the preceding vehicle.

[0004]

[Problems to Be Solved by the Invention] Incidentally, some vehicles are provided with both the constant-speed cruise device and the distance control device between vehicles, and in these vehicles, both the constant-speed cruise control and the following cruise control are sometimes simultaneously carried out. If the constant-speed cruise control and the following cruise control are simultaneously carried out, when there is a preceding car, the following cruise control is preferentially carried out, and when there is no preceding car, the constant-speed cruise control is activated. Therefore, in case a vehicle speed for constant-speed traveling is preset, when the following traveling is carried out, if the preceding vehicle deviates from its lane by course change, etc., and the following cruise control is switched to the constant-speed cruise control, the vehicle speed returns up to the set vehicle speed.

[0005] At that time, though there is no trouble in the case where there is no considerable difference between the set vehicle speed and the vehicle speed when the preceding vehicle disappears, since the difference from the set vehicle speed is large in the case where the set vehicle speed is high and the vehicle speed is low when the preceding vehicle disappears, the

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