

Abstract

System and method for teleoperated control of a ground-based passenger motor vehicle

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The invention relates to a system for teleoperated control of a ground-based passenger motor vehicle (1), comprising the ground-based passenger motor vehicle (1) and a control unit (2) that is spatially separate from the passenger motor vehicle (1), wherein: the passenger motor vehicle (1) can be controlled by an operator by means of control signals that are generated by the operator and transmitted by the control unit (2) to the passenger motor vehicle (1); the passenger motor vehicle (1) comprises at least one camera (3); the control unit (2) comprises a display device (4); image data acquired by means of the camera (3) can be transmitted to the control unit (2) and can be displayed to the operator by means of the display device (4) for the purpose of controlling the passenger motor vehicle (1); the control signals and the image data can be transmitted between a vehicle antenna system (AFS) of the passenger motor vehicle (1) and a transmission antenna system (AUS) wirelessly; and the control signals and the image data can be transmitted between the transmission antenna system (AUS) and the control unit (2) wirelessly or by wire. The invention also relates to a method for teleoperated control of a ground-based passenger motor vehicle (1).

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Interruption-free or interference-free transmission of control signals and image data between the passenger motor vehicle (1) and the control unit (2) is ensured, inter alia, by the vehicle antenna system (AFS) comprising a directional antenna (AF) with adjustable viewing direction.

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