

Technical Disclosure Commons

Defensive Publications Series

April 09, 2018

VIRTUAL CONTROL PANEL / CONTROL PANEL

Daniel Hoppe

Bertrandt Ingenieurbüro GmbH

Follow this and additional works at: https://www.tdcommons.org/dpubs_series

Recommended Citation

Hoppe, Daniel, "VIRTUAL CONTROL PANEL / CONTROL PANEL", Technical Disclosure Commons, (April 09, 2018)
https://www.tdcommons.org/dpubs_series/1137



This work is licensed under a [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/).

This Article is brought to you for free and open access by Technical Disclosure Commons. It has been accepted for inclusion in Defensive Publications Series by an authorized administrator of Technical Disclosure Commons.

VIRTUAL CONTROL PANEL / CONTROL PANEL WITH INDICATORS ON A FZG.-INTERIOR PANEL WITH OPTIONAL HAPTIC AND ACOUSTICS

Technical task:

The task of the technical innovation is to provide a system that makes it possible to project virtual panels in the vehicle. No need to design new components, it simplifies the project to install control panels.

Initial situation:

In order to implement a complex control panel with displays, today display solutions are often used.

Solution:

The technical innovation describes a virtual control panel / control panel with displays on a vehicle interior panel, with optional haptics and acoustics.

On the example described here sits on the back of the armrest a laser projector for the projection of a rear-seat control panel on the rear center console.

However, the positioning of the laser projector is in principle possible anywhere in the vehicle.

The rear seat keypad can be designed with a variety of functions and displays. The projection of this control panel takes place on a interior panel. The interior panel can be adapted for design purposes and also be designed in 3D (free-form surfaces, feeler aids, ...). Likewise, the control panel can also be activated only on demand.

To detect the finger position on the diaphragm is a sensor, which is preferably positioned next to the laser. Possibly. This sensor can also be dual. The sensor is especially an infrared sensor or a camera. Optionally, the aperture on which the control panel is projected can also be haptically excited by an actuator. Another addition would be a speaker for audible confirmation of the operation.

Advantages:

- 3D surfaces are easy to implement by projection.

Possible application:

- In all vehicles.

