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## Active vitality control

Daniel Hoppe

*Bertrandt Ingenieurbüro GmbH*

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## ACTIVE VITALITY CONTROL

### Technical task:

The task of the technical innovation is to increase the safety of automated vehicles.

### Initial situation:

To ensure that the driver remains alert and focused in an autonomous vehicle, there are various warning systems such as „hands-on detection“, eyelash detection or fatigue pause recommendation.

### Solution:

The technical innovation envisages that the driver and his fellow travelers actively keep fit while driving autonomously and that each passenger sees the self-generated energy turnover that he has developed with his muscular strength in the vehicle.

It is important to actively push or pull, generally to develop a pleasant muscular force that stimulates the body cycle or regenerates and possibly transforms the mechanical work into electrical energy, which then for the individual charging of small consumers such as Powerpack, Smartphone, Laptop etc. seat-related and individually the co-traveler can be made available.

The pressure forces can be selected via the operating menu in a new menu item under the „vitality control“ individual setting under distinction between comfort (soft) and dynamic (heavy).

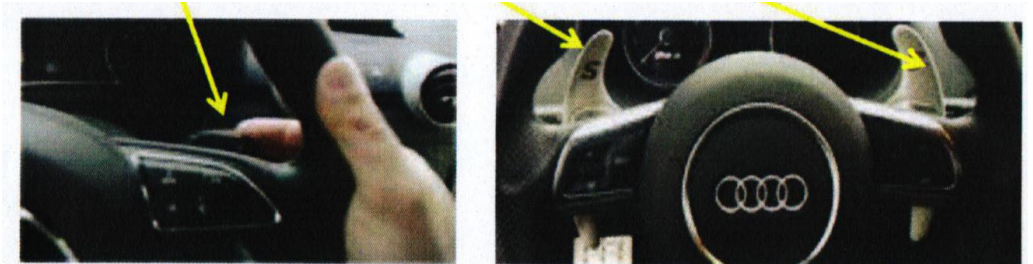
### Advantages:

- Pull / push elements in the vehicle interior, which are released according to the traffic situation.
- Increasing active safety in autonomous driving by maintaining physical fitness.
- Hands on the steering wheel or the paddles if necessary armrest center armrest.
- Higher vitality in long-distance driving / traffic jam on the highway / Pause recommendation hint comes later.
- Premiumlike active safety possibly with conversion of mech. Energy in electr. Energy / dynamo effect.
- Personalized, Seat-mounted Consumer Electronics Personalized Charging / Powerpack / Smartphone / ...

### Possible application:

- Automated vehicles.

### Technische Neuerung



- Entriegelung/ Freischaltung der federbelasteten Schaltwippe nur bei Geschwindigkeitssignal  $v=0\text{km/h}$
- Druckkraft je nach Driveselect-Einstellung Individuell im ggf. neuen Menüepkt. "Body assist"t => comfort ( soft) / dynamic (heavy)