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## INTELLIGENT FUNCTION

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## INTELLIGENT FUNCTION

### **Technical task:**

The idea describes a logo-controlled procedure and a control function for a locking/opening control system of a motor vehicle and/or a scope of accessories

The focus of the idea is the use of a brand logo (for example the four rings of AUDI) and its temporary change of position in relation to each other to control a mechanical function and/or an electrical switching function.

### **Initial situation:**

The problem of individual adjustment possibilities of the components in a motor vehicle is constantly increasing due to the ever more extensive additional equipment.

### **Solution:**

The aim is to simplify the unclear operation in the form of illogical switch positions and the number of many switch modules with an intuitive operation.

The approach is to use the brand logo of the vehicle for a simple, clear and attractive adjustment.

The task is solved with:

- a brand logo
- at least two elements, such as rings, that are connected to ...
- ...of a mechanical system can be moved relative to each other, and...
- are coupled with an electrical platinum/printed circuit board/electrical board, and/or
- a Screen Touch element with at least two elements, for example, rings, that begins with ...
- a contactless, or touch function can be moved relative to each other, and ...
- a control of a functionality in/at ...
- a motor vehicle and/or...
- an accessory on a motor vehicle

The handling of the brand logo for the control of any control system in a motor vehicle / scope of accessories of the motor vehicle is associated with an increase in identification with the product.

For example, with the AUDI brand logo, the brand logo can be closed up to a single circle by moving the elements of the brand logo in different levels by pressing them together. In the execution as a push/push element, the brand logo can be designed in a preferred execution from a ...

- first switch position - rings lie next to each other as standard - position "off" - preferred idle switch position / vehicle is stationary, temporarily in a
- second switch position is transferred by pressing the rings together - position "on" / vehicle moves and functions are operated

Temporary means that the brand logo is used as a switch/button when the rings are temporarily pushed over each other.

After activating the switching signal "on" and releasing the manual force, the four rings, which are spring-loaded in relation to each other, return step by step to their initial position and embody the brand logo.

The mechanical operation of tangible rings can also be controlled in a special design purely optically with a touchpad in the same way / screen-controlled and/or contact-free with a wipe function in the

form of a pad. With these two designs of 4 rings of a brand logo, for example, 2 x 18 switch positions for a total of 36 functions can be controlled.

**Advantages:**

- clearer operation with simultaneous
- Saving of switching/adjustment/control modules
- innovative switching/adjustment variants according to the motto "control the four rings
- Optimization of identification of brand logo to customer
- Light/visual/entertainment/air-conditioning control etc. including exterior trimming features of an AOZ/accessory scope and/or an intelligent access code to the vehicle
- simply clever, for example up to 2 x 18 possibilities with 4 rings

**Possible application:**

In a preferred design, the switch/push-button operation/or adjustment can be carried out by placing / sliding the rings over each other in steps - design A - a straight-line electrical control.

Other versions are designed in such a way that, depending on the first touch on one side of the logo, a switch is made from left to right or right to left, i.e....

- an adjustment from left to right - see design B - and/or with the same element a
- an adjustment from right to left - see design C -

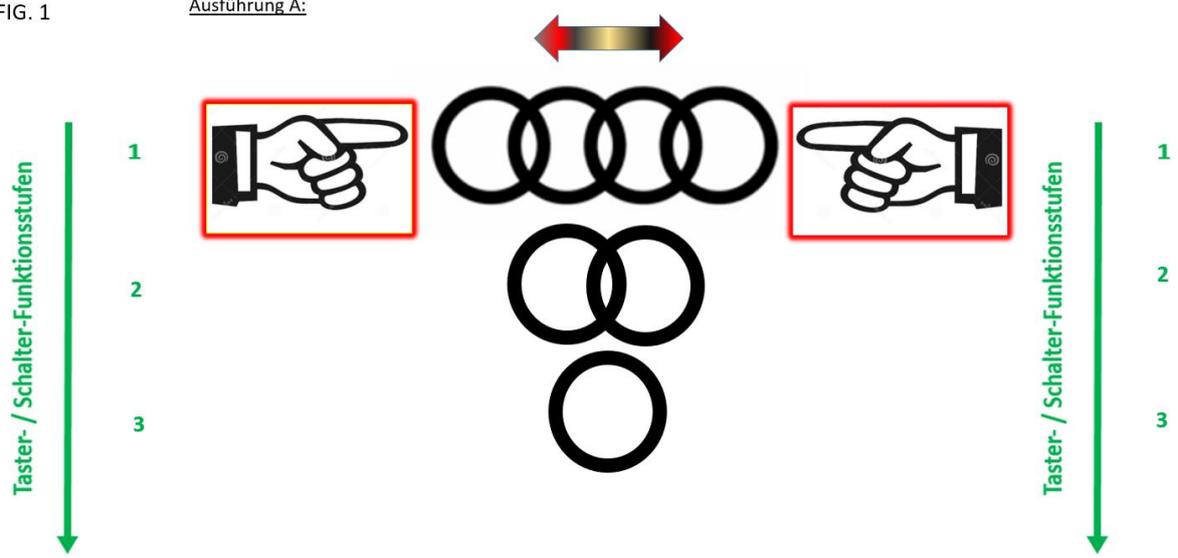
Ditto brand logo with rotary adjustment and switching on both sides vertically and from top to bottom, as well as from bottom to top - depending on the first touch on one side analogous to B/C

- an adjustment on both sides from above and below - see design D -
- an adjustment from top to bottom - see version E-
- an adjustment from bottom to top - see version F-

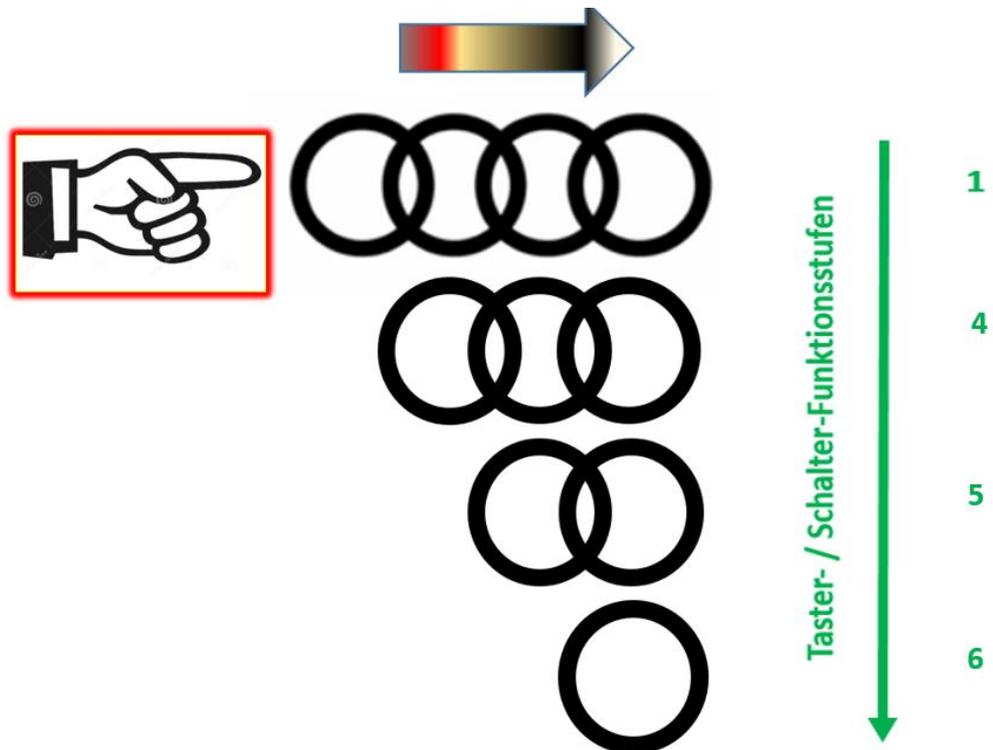
This means that a total of 18 switch/key positions are possible with two basic output positions of the brand logo

- in the normal, construction-dependent position of the brand logo Switch/button variants controlled on both sides from 1-3
- left-hand drive from 4-6 and switch button variants ...
  
- when the brand logo is positioned vertically, e.g. in driving mode, switch/button variants 10-12 are possible analogous to control A
- top to bottom actuated Switch/key variants 13-15
- bottom to top actuated Switch/button positions 16-18 possible

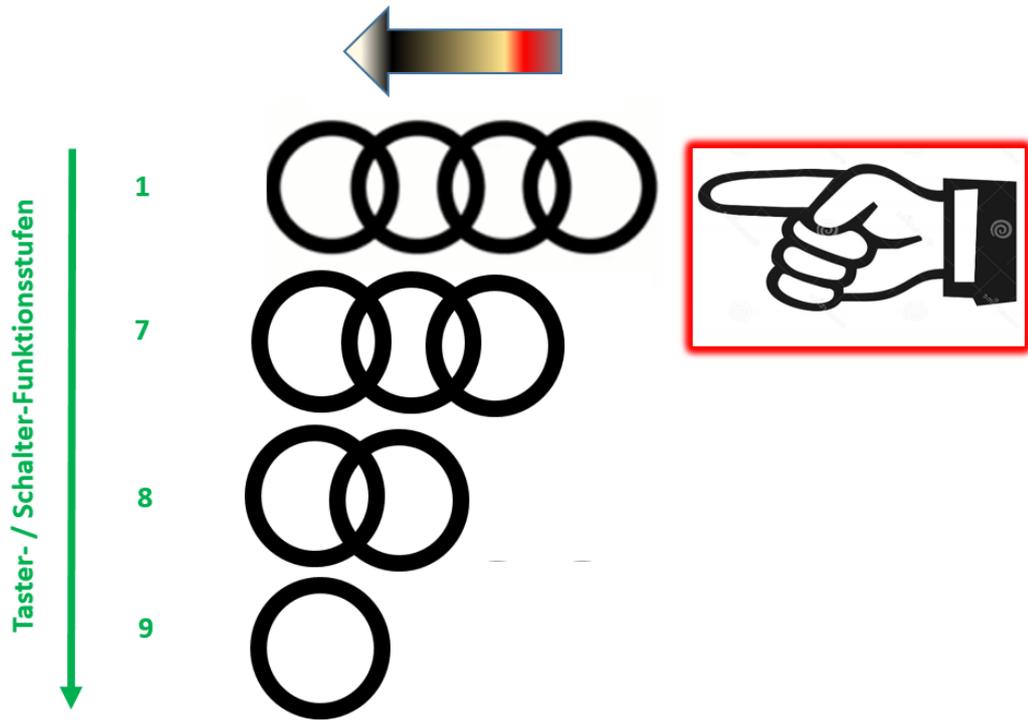
Version A  
FIG. 1



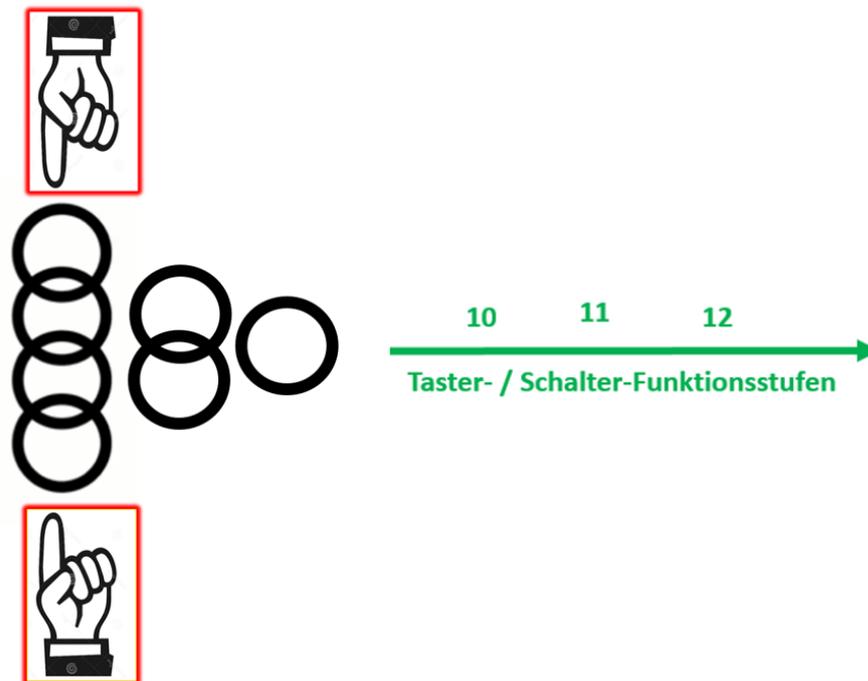
Version B



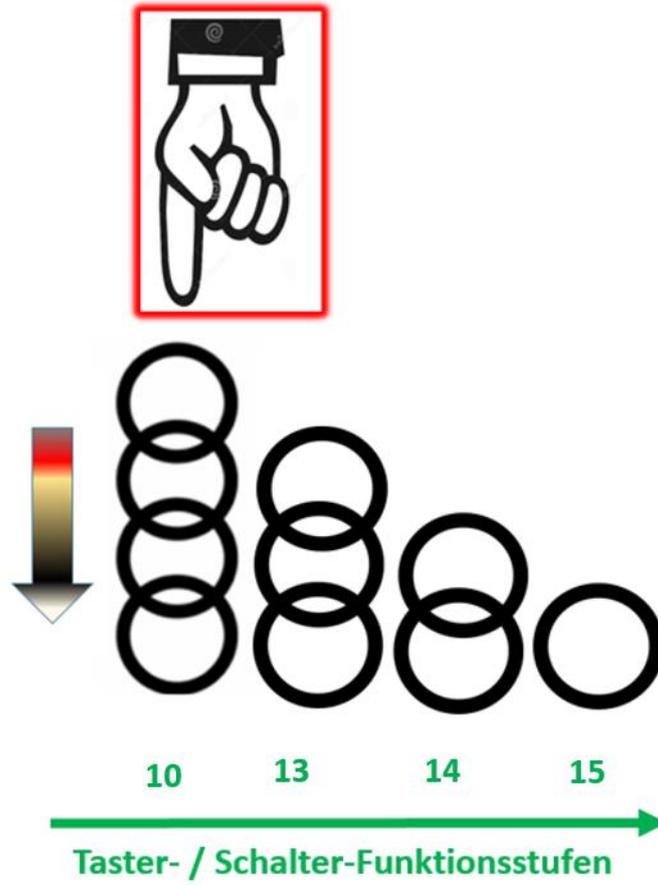
Version C



Version D



Version E



Version F

