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August 2021

## TECHNICAL POSSIBILITY OF REACTION/INTERACTION OF A MIN. 2-ZONE FRAGRANCING SYSTEM WITH REMOVED FLACONS OR USE OF IDENTICAL FLACONS

Axel Unger  
*Bertrandt Ingenieurbüro GmbH*

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### Recommended Citation

Unger, Axel, "TECHNICAL POSSIBILITY OF REACTION/INTERACTION OF A MIN. 2-ZONE FRAGRANCING SYSTEM WITH REMOVED FLACONS OR USE OF IDENTICAL FLACONS", Technical Disclosure Commons, (August 30, 2021)

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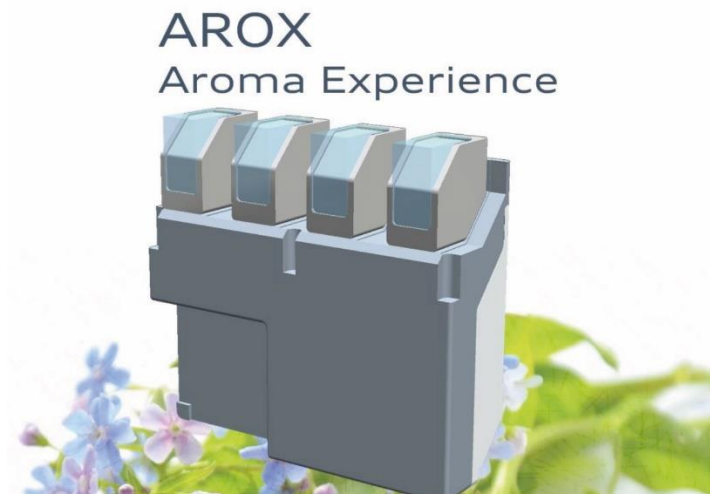
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## TECHNICAL POSSIBILITY OF REACTION/INTERACTION OF A MIN. 2-ZONE FRAGRANCING SYSTEM WITH REMOVED FLACONS OR USE OF IDENTICAL FLACONS

### Initial situation:

Today's vehicles are equipped with simple fragrancing and/or ionisation devices. These are usually M-equipment and are currently switched on or off by the customer. This equipment is used to improve the air. The air freshening systems can, for example, have a 2-zone design and several bottles that the customer can change himself.



Prototype with 4 cartridges (in development)

### Disadvantage

The scenting system with several slots for bottles/cartridges can be equipped differently or not at all. For this purpose, there may be a display of the occupancy of the slots in the HMI.

### Solution:

The core of the idea is the possibility of detecting the cartridges and evaluating them for a scenting system with at least two zones (with at least two slots) in a vehicle with a corresponding interaction for the passengers.

The individual cartridges (1-4) should be equipped with a chip (already known technology) on which various information is stored.

Among other things, the following information should be stored here:

- Fragrance name
- Duration of use
- Intensity of use (setting)

The following variants are possible for the idea, for example:

1. When all fragrances are removed, it is not possible to switch on the fragrance dispenser. Note to customer: "Scenting not possible".
2. If only one fragrance is installed (remaining 3 slots are free); notice: "2-zone fragrancing not possible! By reading out the scent name, it can be recognised whether it is a general scent or a use-case-based scent. After this evaluation, the customer should then also be informed which application would be possible.
3. If the same scents are installed on all slots; note: "multi-zone scenting not possible".
4. A scaling of the variants by the occupied slots depending on the scenting zones can be derived accordingly (e.g. 4 slots, 2 scents occupied and 4 scenting zones).

In the case of a multi-zone scenting system, information can also be displayed to the respective occupant or scenting zone.

Implementation with a voice assistant and/or app is also possible accordingly.

The customer has the option of activating this interaction in various stages.

For this, a scenting system equipped with the corresponding intelligence is necessary. Furthermore, this interaction can also be coupled with an ioniser.

**Advantages:**

- This intelligence allow s interaction with the customer.
- Through this device, the customer has an added value w ith his scenting system.
- The drivers/occupants thus have an increasein comfort.