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DEVICE FOR AUTOMATIC ADJUSTMENT OF THE AIR QUALITY IN THE PASSENGER COMPARTMENT OF A VEHICLE DEPENDING ON THE PRESENCE OF A NURSING MOTHE

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DEVICE FOR AUTOMATIC ADJUSTMENT OF THE AIR QUALITY IN THE PASSENGER COMPARTMENT OF A VEHICLE DEPENDING ON THE PRESENCE OF A NURSING MOTHE

Initial situation:

Currently, vehicles in the new vehicle series are offered with ioniser and fragrancing.

These functions are controlled or regulated depending on various environmental parameters (e.g. outside temperature, interior temperature, humidity, sun intensity, ...).

Disadvantage:

The air quality (scenting) is selected and set by the customer.

This can have negative effects on very small children who are breastfed.

Solution:

The core of the idea is as follows:

To detect a mother with a very small child (breastfeeding or not) via a detection in the interior and to make a corresponding reaction/adjustment of the scenting.

1. Detection of the group of people in the vehicle
Various technical devices are conceivable for this purpose. On the one hand, this could be detected via a camera and active interrogation could take place.
Furthermore, information from the digital maternity passport or similar (mobile phone) to the vehicle would be conceivable.
This would also be conceivable via a corresponding personalisation.
2. Adjustment of air quality
The adjustment of the application of the fragrances should be carried out accordingly.
The scenting should then preferably be switched off when the vehicle is stationary.
In the case of multi-zone scenting, the scenting can be switched off selectively for the mother and the child.

This device can be used while driving without and also with breastfeeding.

This device can be used for the entire passenger compartment, whereby a person must be referenced here.

Furthermore, this device can also be used for the front and rear areas or for each seat in the vehicle (if the technical possibilities allow).

Advantage:

This would give the customer a higher utility value from his vehicle.

Technical implementation:

The vehicle must have the following technical features:

- Switch-on facility for the device
- Device for recognising a mother with a small child
- Transmission of data to an air quality control unit
- Processing of the data in a computer unit with corresponding setting of the actuators

Two detection possibilities (and/or linking) would be conceivable:

1. Mother says: "I will breastfeed the child" - vehicle acoustically detects this sentence and sets scenting.
2. Detection by means of a camera: The child is taken out of the child seat and put to the breast (if necessary, the previous crying of the child can also be detected acoustically).