A method and an apparatus for checking and/or configuring the arrangement of the physical elements of a vehicle



UX/HMI



ISOFTWARE

Interior Layout

Clinic test

Virtual Validation

VR Software & Technologies

Benchmark

Merged Reality

Tracking System

Head Mounted Display

Seating buck

Innovations/advantages

Reduced development time & investment; Product and benchmark definition: Different sitting positions and layouts; Possibility to track items and body position with millimiter accuracy; Immersive & realistic environment and user experience; Virtual ergonomic checks and clinic;

Augmented convergence process; Just in time design comparison; Faster time to market;

H-Point

HMI/UX

Continuous tool development and integration to interact with the virtual scene:

Real time broadcasting & co-working through session sharing.

Application field

Vehicles engineering Design centre Concept Lab



Product insight

Haptic Feedback

Italdesign has patented a method and equipment that allow, through interaction with an immersive virtual environment, simulation of the real conditions of use and the arrangement of the physical elements of a passenger compartment, including for testing purposes. The user can be connected using multiple wearable sensors (Motion Capture), enabling analysis of the User Experience (UX) and the experience of using graphical interfaces (HMI). Physical elements such as seats, steering wheel, foot pedals, roof, doors, and armrests, can be moved and positioned in line with pre-programmed reference points according to type-approval criteria.



Patent Information

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