

## Seat angle change equipment

The smart chair guides user's posture and prevents excessive physical load

### Overview

It is known that if a person's posture is maintained in a sitting position for an excessively long period of time, it can be harmful to his/her health. For example, it is known that there is a correlation between abovementioned period of time and the probability of suffering from diseases such as musculoskeletal disorder, heart failure, or lifestyle-related disease.

In this invention, the chair seat is slightly inclined in order to guide the person to standing position naturally. Another key feature is the realization of a tilt method that does not interfere with the user's original task, such as desk work.

In addition, various applications can be envisioned by linking with functions provided by smart devices such as reminder function, etc.

### Product Application

- ❑ Furniture, office furniture
- ❑ Office chair

### IP Data

IP No. : JP2021-036737  
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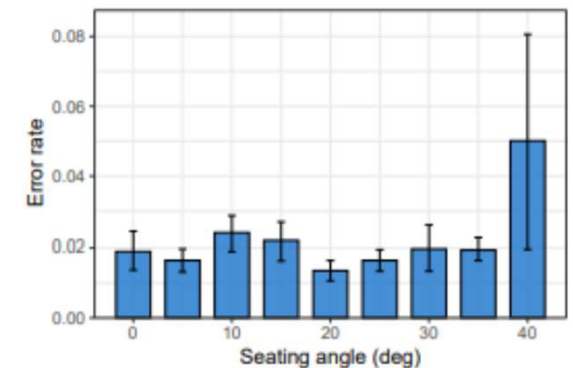


### Features・Outstandings

Let user stand up naturally



The task error rate does not increase by 35° inclination



Reference [2]

### Related Works

[1] Aoi Suzuki, Kazuyuki Fujita, Kazuki Takashima, Kaori Ikematsu, Yoshifumi Kitamura. TiltChair: Office chair that guides posture by tilting the seat forward, Interaction2021 article, p134-139. March 2021.

[2] Kazuyuki Fujita, Aoi Suzuki, Kazuki Takashima, Kaori Ikematsu, Yoshifumi Kitamura. TiltChair: Manipulative Posture Guidance by Actively Inclining the Seat of an Office Chair, Proc. of the 2021 CHI Conference on Human Factors in Computing Systems, to appear.

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