

**TITLE OF INVENTION: BODY TEMPERATURE ESTIMATION SYSTEM
AND METHOD CONSIDERING MOVEMENTS OF TARGET PERSON AND
CHANGES IN EXTERNAL TEMPERATURE**

ABSTRACT

A system and method are provided for estimating the body temperature of a target person in consideration of movements of the target person and changes in the external temperature due to a sudden change in the space temperature when continuously measuring the body temperature. The system includes a temperature measurement unit, a movement measurement unit, and a body temperature estimation unit. The temperature measurement unit is attached to a skin of the target person and measures a skin temperature and an external temperature. The movement measurement unit measures movements of the target person. The body temperature estimation unit receives measured movement information from the movement measurement unit, receives the skin temperature and the external temperature from the temperature measurement unit, estimates the body temperature based on a correlation between the skin temperature and the external temperature, and monitors a change in the external temperature per monitoring time.

[FIG. 1]