



ISTITUTO ITALIANO
DI TECNOLOGIA

TITLE

Wearable system of sensory substitution, in particular for the blind or partially sighted

INVENTORS

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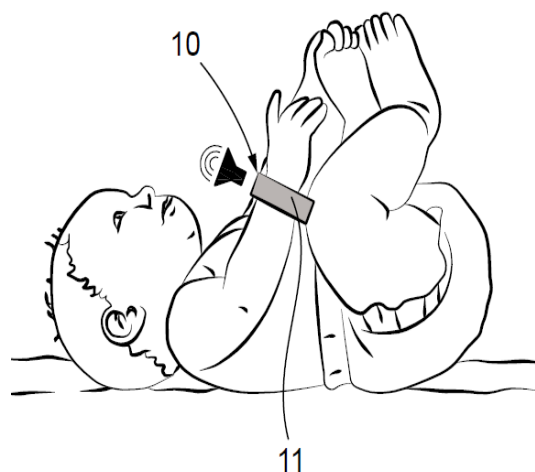
DESCRIPTION

A wearable sensory substitution system, in particular for blind or visually impaired people; said system comprising at least one module comprising:

- a sensor apparatus, for being worn by a user and designed to detect data representing the arrangement assumed within the space by the part of the user's body on which said sensor apparatus is worn by the user,
- a signaling apparatus, for providing a signal that can be perceived by said user
- a control unit, connected to said sensor apparatus and to said signaling apparatus and configured to receive said data from said sensor apparatus and to control said signaling apparatus as a function of said data;

said system being characterized in that said control unit is configured to:

- calculate or receive an estimation of the acceleration assumed by said part of the user's body as a function of said data
- control the emission of said signal by said signaling apparatus, when said estimation exceeds a signaling threshold value.



APPLICATIONS

Rehabilitation, sensory disabilities, motor disabilities

KEYWORDS

Sensory-motor, communication, rehabilitation, cognition blind, partially sighted

BIBLIOGRAPHIC DATA

Sistema indossabile di sostituzione sensoriale, in particolare per non vedenti od ipovedenti

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