Title (en)

SYSTEM AND METHOD FOR DETECTING AND HELPING CORRECT INAPPROPRIATE POSTURES IN REAL TIME

Title (de)

SYSTEM UND VERFAHREN ZUR ERKENNUNG UND UNTERSTÜTZUNG DER KORREKTUR VON UNANGEMESSENEN HALTUNGEN IN ECHTZEIT

Title (fr)

SYSTEME ET PROCEDE POUR LA DETECTION ET L'AIDE A LA CORRECTION DE POSTURES INAPPROPRIÉES EN TEMPS RÉEL

Publication

EP 4003149 A1 20220601 (FR)

Application

EP 20754322 A 20200716

Priority

- FR 1908557 A 20190726
- FR 2020051279 W 20200716

Abstract (en)

[origin: WO2021019142A1] The invention concerns a system for detecting and helping correct posture, comprising a support (2) that can be worn by a user with two support portions (2A, 2B) each carrying a sensor (3, 4) held respectively opposite thoracic and lumbar zones of the back, a signal processing unit (6) configured to define, based on signals supplied by the sensors, the user assuming an initial upright posture, two planes respectively attached to each of the sensors and initially inclined relative to each other by a first angle having, in projection in the sagittal plane, an initial value, determine an instantaneous value of variation of the first angle relative to the initial value, compare this instantaneous value with a predefined threshold value, and supply an output signal when the instantaneous value exceeds the threshold value, the support carrying a feedback means (7) generating a perceptible warning signal in response to the output signal. Also disclosed are systems for detecting and correcting postures.

IPC 8 full level

A61B 5/00 (2006.01); **A61B 5/11** (2006.01)

CPC (source: EP)

A61B 5/1116 (2013.01); **A61B 5/1121** (2013.01); **A61B 5/486** (2013.01); **A61B 5/6823** (2013.01); A61B 5/7405 (2013.01); A61B 5/7455 (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3099041 A1 20210129; **FR 3099041 B1 20240503**; EP 4003149 A1 20220601; WO 2021019142 A1 20210204

DOCDB simple family (application)

FR 1908557 A 20190726; EP 20754322 A 20200716; FR 2020051279 W 20200716