

Title (en)

METHOD FOR CONTROLLING AT LEAST ONE ACTUATOR OF AN ORTHOPEDIC DEVICE, AND ORTHOPEDIC DEVICE

Title (de)

VERFAHREN ZUR STEUERUNG ZUMINDEST EINES AKTUATORS EINER ORTHOPÄDIETECHNISCHEN EINRICHTUNG UND ORTHOPÄDIETECHNISCHE EINRICHTUNG

Title (fr)

MÉTHODE DE CONTRÔLE D'AU MOINS UN ACTIONNEUR D'UN DISPOSITIF ORTHOPÉDIQUE ET DISPOSITIF ORTHOPÉDIQUE

Publication

EP 4142657 A1 20230308 (DE)

Application

EP 21722417 A 20210427

Priority

- DE 102020111535 A 20200428
- EP 2021060922 W 20210427

Abstract (en)

[origin: WO2021219596A1] The invention relates to a method for controlling at least one actuator (4) of an orthopedic device (2) with an electronic control device (E), which is coupled to the actuator (4) and at least one sensor (8) and which has an electronic processor (μ C) for processing sensor data (s), wherein at least one state machine (SM) in which states (z) of the orthopedic device (2) and state transitions of the actuator (4) are determined is stored in the control device (E), wherein a classifier (K) in which sensor data (s) and/or states (z) are automatically classified within the scope of a classification method is stored in the control device (E), wherein the state machine (SM) and the classification method are used in combination and, on the basis of the classification and the states (z), a decision is made about the manner of activating or deactivating the actuator (4) as a control signal.

IPC 8 full level

A61F 2/70 (2006.01)

CPC (source: EP US)

A61F 2/70 (2013.01 - EP); **G16H 20/40** (2017.12 - US); **A61F 2002/704** (2013.01 - EP)

Citation (search report)

See references of WO 2021219596A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102020111535 A1 20211028; EP 4142657 A1 20230308; US 2023197242 A1 20230622; WO 2021219596 A1 20211104

DOCDB simple family (application)

DE 102020111535 A 20200428; EP 2021060922 W 20210427; EP 21722417 A 20210427; US 202117997175 A 20210427