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1. [202010018373](#) TRAININGSVORRICHTUNG UND TRAININGSANORDNUNG

DE - 31.03.2016

Int.Class [A63B 24/00](#) Appl.No 202010018373 Applicant eGym GmbH Inventor

Trainingsvorrichtung, die aufweist: ein Trainingselement [1] für eine trainierende Person, einen Wechselstrommotor [3] und einen Frequenzumrichter [5], der eingerichtet ist, um den Wechselstrommotor [3] zu regeln, wobei der Frequenzumrichter [5] Messeinrichtungen, die eingerichtet sind, um eine Spannung und einen Strom des Wechselstrommotors [3] zu messen, und eine Berechnungseinrichtung, die eingerichtet ist, um einen magnetischen Zustand des Wechselstrommotors [3] unter Verwendung der gemessenen Spannung, des gemessenen Stroms, eines Referenzdrehmoments und eines Referenzflusses zu berechnen, um ein Drehmoment des Wechselstrommotors [3] zu erzeugen, aufweist, wobei die Trainingsvorrichtung eine Regeleinheit [6] mit einem Maschinenregelmodul [27] aufweist, das eingerichtet ist, um den Referenzfluss und das Referenzdrehmoment unter Verwendung eines beabsichtigten Gesamtdrehmoments zu berechnen, wobei das Maschinenregelmodul [27] mit dem Frequenzumrichter [5] verbunden ist und eingerichtet ist, um den Referenzfluss und das Referenzdrehmoment an den Frequenzumrichter [5] zu senden, und wobei der Referenzfluss als eine Funktion des Absolutbetrags des Drehmoments, das an einer Ausgangswelle des Wechselstrommotors [3] benötigt wird, eingestellt wird.

2. [2895239](#) TRAINING METHOD AND DEVICE

EP - 22.07.2015

Int.Class [A63B 21/005](#) Appl.No 13708683 Applicant EGYM GMBH Inventor SAUTER FLORIAN

The present invention is directed to a method and apparatus for adaptive training one or more muscle(s) and/or joint(s) of a trainee. The method comprises the step of automatically determining an individual resistance, resistance band, speed and/or speed band of a user during movement of the training device by the user and the further step of automatically adjusting the resistance, resistance band and/or speed band for an actual or a later movement by the user according to the determination step. According to a preferred embodiment the further movement of the user is monitored and the training resistance automatically adapted.

3. [WO/2014/040660](#) TRAINING METHOD AND DEVICE

WO - 20.03.2014

Int.Class [A63B 21/005](#) Appl.No PCT/EP2013/000565 Applicant EGYM GMBH Inventor SAUTER, Florian

The present invention is directed to a method and apparatus for adaptive training one or more muscle(s) and/or joint(s) of a trainee. The method comprises the step of automatically determining an individual resistance, resistance band, speed and/or speed band of a user during movement of the training device by the user and the further step of automatically adjusting the resistance, resistance band and/or speed band for an actual or a later movement by the user according to the determination step. According to a preferred embodiment the further movement of the user is monitored and the training resistance automatically adapted.

4. [WO/2021/130087](#) ASSEMBLY, SYSTEM AND METHOD FOR IMPROVED TRAINING

WO - 01.07.2021

Int.Class [A63B 21/00](#) Appl.No PCT/EP2020/086547 Applicant EGYM GMBH Inventor SAUTER, Florian

The training machine assembly comprises at least one control device and at least one training resistance. Each of the at least one training resistance comprises at least one training resistance value, such as a force applied towards the user contact element, e.g. a handle. The training resistance value can also comprise a function or a vector, for example a function linking a speed of movement of a user and/or a user contact element and a force applied against said movement. The control device can be a control device for controlling the training machine assembly. The training resistance can comprise an actuator. The actuator can comprise an electric motor. The training resistance can comprise a weight. The training resistance can comprise another element configured to provide a resistance against a movement of the user. The training machine assembly can comprise at least one camera.

5. [20200069993](#) EXERCISING DEVICE

US - 05.03.2020

Int.Class [A63B 21/00](#) Appl.No 16467500 Applicant EGYM GMBH Inventor Jannis Kumelis

An exercising device [1] and method comprising at least one winch [20], a motor [30] being adapted to drive and/or retard the winch [20], the winch [20] being adapted to provide a first torque to be delivered to a user interface [60] and a biasing assembly [40] being adapted to provide a second torque to the winch [20] being directed generally opposite to the first torque.

6. [3551299](#) EXERCISING DEVICE

EP - 16.10.2019

Int.Class [A63B 21/005](#) Appl.No 17808400 Applicant EGYM GMBH Inventor KUMELIS JANNIS

An exercising device [1] and method comprising at least one winch [20], a motor [30] being adapted to drive and/or retard the winch [20], the winch [20] being adapted to provide a first torque to be delivered to a user interface [60] and a biasing assembly [40] being adapted to provide a second torque to the winch [20] being directed generally opposite to the first torque.

7. [WO/2018/104084](#) EXERCISING DEVICE

WO - 14.06.2018

Int.Class [A63B 21/005](#) Appl.No PCT/EP2017/080427 Applicant EGYM GMBH Inventor KUMELIS, Jannis

An exercising device [1] and method comprising at least one winch [20], a motor [30] being adapted to drive and/or retard the winch [20], the winch [20] being adapted to provide a first torque to be delivered to a user interface [60] and a biasing assembly [40] being adapted to provide a second torque to the winch [20] being directed generally opposite to the first torque.

8. [20210322830](#) VELOCITY BASED SAFETY SYSTEM AND METHOD FOR FITNESS MACHINES

US - 21.10.2021

Int.Class [A63B 24/00](#) Appl.No 17232418 Applicant EGYM GmbH Inventor Yvonne Blaszczyk

Training machine and a method of controlling a training machine comprising a resistance component configured to provide at least a resistance during training, a control configured to control the resistance component during training and a safety component configured to monitor the training machine on the basis of velocity and/or any derivative thereof.

9. [9842/CHENP/2012](#) TRAINING APPARATUS ARRANGEMENT AND METHOD

IN - 09.05.2014

Int.Class [A63B 21/005](#) Appl.No 9842/CHENP/2012 Applicant eGym GmbH Inventor SAUTER Florian

The present invention relates to a training apparatus comprising a training element for a user performing exercises an AC motor and a frequency converter being arranged to control AC motor. The frequency converter comprises measuring means being arranged to measure voltage and current of AC motor and calculation means being arranged to calculate magnetic state of the AC using the measured voltage the measured current a reference torque and a reference flux in order to generate torque of the AC motor. The training apparatus further comprises a control unit having a machine control module being arranged to calculate reference flux and reference torque using an intended overall torque wherein the machine control module is connected to the frequency converter and arranged to transmit reference flux and reference torque to the frequency converter. Further the present invention comprises training arrangement comprising training apparatus and method for operating the training arrangement.

10. [2803698](#) TRAINING APPARATUS, ARRANGEMENT AND METHOD

CA - 05.01.2012

Int.Class [A63B 21/005](#) Appl.No 2803698 Applicant EGYM GMBH Inventor SAUTER, FLORIAN

The present invention relates to a training apparatus comprising a training element [1] for a user performing exercises, an AC motor [3] and a frequency converter [5] being arranged to control the AC motor [3], wherein the frequency converter [5] comprises measuring means being arranged to measure a voltage and a current of the AC motor [3] and calculation means being arranged to calculate a magnetic state of the AC motor [3] using the measured voltage, the measured current, a reference torque and a reference flux in order to generate a torque of the AC motor [3]. The training apparatus further comprises a control unit [6] having a machine control module [27] being arranged to calculate the reference flux and the reference torque using an intended overall torque, wherein the machine control module [27] is connected to the frequency converter [5] and arranged to transmit the reference flux and the reference torque to the frequency converter [5]. Further, the present invention comprises a training arrangement comprising the training apparatus and a method for operating the training arrangement. This training apparatus is readily applicable to a training exercise for muscle of an exercising person.

11. [112012033624](#) APARELHO, DISPOSIÇÃO E MÉTODO DE TREINAMENTO

BR - 22.11.2016

Int.Class [A61B 5](#) Appl.No 112012033624 Applicant Egym GMBH Inventor Florian Sauter

aparelho, disposição e método de treinamento. a presente invenção refere-se a um aparelho de treinamento que compreende um elemento de treinamento [1] para um usuário fazer exercícios, um motor ca [3] e um conversor de frequência [5], que é disposto para controlar um motor ca [3], em que o conversor de frequência[5] compreende um meio de medida, que é disposto para medir uma voltagem e uma corrente do motor ca [3], e um meio cálculo, que é disposto para calcular um estado magnético do motor ca [3], usando a voltagem medida, a corrente medida, um torque de referência e um fluxo de referência, para gerar um torque do motor ca [3]. o aparelho de treinamento compreende ainda uma unidade de controle [6], que tem um módulo de controle de máquina [27], que é disposto para calcular o fluxo de referência e o torque de referência usando um torque global intencionado, em que o módulo de controle de máquina [27] é ligado ao conversor de frequência [5], e disposto para transmitir o fluxo de referência e o torque de referência ao conversor de frequência [5]. ainda mais, a presente invenção compreende uma disposição para operar a disposição de treinamento. esse aparelho de treinamento é facilmente aplicável a um exercício de treinamento muscular de uma pessoa exercitando-se.

12. [20130095978](#) TRAINING APPARATUS, ARRANGEMENT AND METHOD

US - 18.04.2013

Int.Class [A63B 24/00](#) Appl.No 13805455 Applicant Florian Sauter Inventor Florian Sauter

A training apparatus including a training element for a user performing exercises, an AC motor and a frequency converter being arranged to control the AC motor, wherein the frequency converter comprises measuring means being arranged to measure a voltage and a current of the AC motor and calculation means being arranged to calculate a magnetic state of the AC motor using the measured voltage, the measured current, a reference torque and a reference flux in order to generate a torque of the AC motor. The training apparatus further comprises a control unit having a machine control module being arranged to calculate the reference flux and the reference torque using an intended overall torque, wherein the machine control module is connected to the frequency converter and arranged to transmit the reference flux and the reference torque to the frequency converter.

13. [WO/2012/000911](#) TRAINING APPARATUS, ARRANGEMENT AND METHOD

WO - 05.01.2012

Int.Class [A63B 21/005](#) Appl.No PCT/EP2011/060663 Applicant eGym GmbH Inventor SAUTER, Florian

The present invention relates to a training apparatus comprising a training element [1] for a user performing exercises, an AC motor [3] and a frequency converter [5] being arranged to control the AC motor [3], wherein the frequency converter [5] comprises measuring means being arranged to measure a voltage and a current of the AC motor [3] and calculation means being arranged to calculate a magnetic state of the AC motor [3] using the measured voltage, the measured current, a reference torque and a reference flux in order to generate a torque of the AC motor [3]. The training apparatus further comprises a control unit [6] having a machine control module [27] being arranged to calculate the reference flux and the reference torque using an intended overall torque, wherein the machine control module [27] is connected to the frequency converter [5] and arranged to transmit the reference flux and the reference torque to the frequency converter [5]. Further, the present invention comprises a training arrangement comprising the training apparatus and a method for operating the training arrangement. This training apparatus is readily applicable to a training exercise for muscle of an exercising person.



