

Search strategy

Query

((LOAD SENSOR) AND CAMERA AND WIRELESS)/TI/AB/TX AND (A63B)/IPC

12 Documents

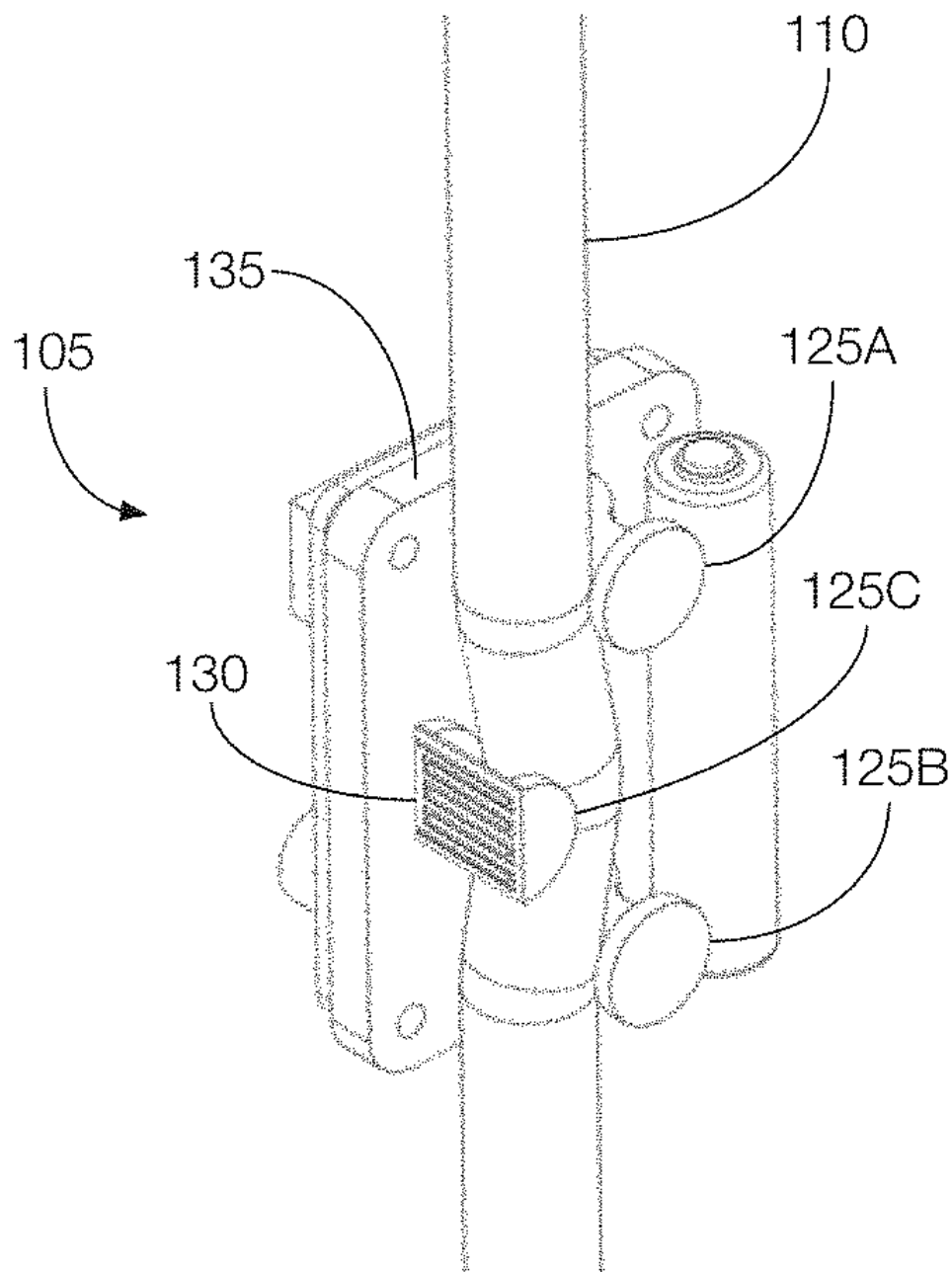
Publication numbers	Title	Current assignees
WO2008118173 A1	Devices, systems and methods for receiving, recording and displaying information relating to physical exercise	DHKL
EP3242727 A2	Exercise tracker	SHAPELOG
JP2012157580 A	Exercise support system	PANASONIC
JP6566591 B1	Weight training information management system, the information processing apparatus, weight training information management program and a weight training information management method	OLORI
CN103127686 A	Comprehensive exercise measurement and auxiliary analysis system for curling exercise training	CHINA INSTITUTE OF SPORT SCIENCE
US20170173394 A1	Technologies for managing user-specific workouts	INTEL
EP2856368 A2	Fitness training system with energy expenditure calculation that uses multiple sensor inputs	NIKE
WO2018140959 A1	Systems for dynamic resistance training	LIFTLAB
WO2014179707 A1	System and method for collecting, analyzing and reporting fitness activity data	ROLLEY DAVID
EP1922117 A2	Medical analysis and recording system	BVP HOLDING
WO201711464 A1	Exercise data collection system	BML PRODUCTIONS
EP1595522 A1	Motion training device	OLTHOF ALEXANDER OLDE

Family 2/12 - FAMPAT - ©Questel

Title

(EP3242727)

Exercise tracker

Images**Publication numbers with kind code & date**

EP3242727	B1	2020-02-19	EP3242727
CN107206266	B	2019-11-05	CN107206266B
US10307641	B2	2019-06-04	US10307641
EP3242727	A4	2018-08-08	EP3242727
EP3242727	A2	2017-11-15	EP3242727
CN107206266	A	2017-09-26	CN107206266
US20170173392	A1	2017-06-22	US20170173392



US9616292	B2	2017-04-11	US9616292				
WO2016/111827	A3	2016-10-13	WO2016111827				
CA2973229	A1	2016-07-14	CA2973229				
US20160199697	A1	2016-07-14	US20160199697				
WO2016/111827	A2	2016-07-14	WO2016111827				

Abstract

(EP3242727)

An exercise tracker includes a force sensor programmed to output a force signal representing a force applied to a cable associated with a piece of exercise equipment. The exercise tracker further includes a processing device programmed to receive the force signal and determine, from the force signal, exercise data including an amount of weight lifted.

Inventors

ORFIELD NOLAN

Latest standardized assignees - inventors removed

SHAPELOG

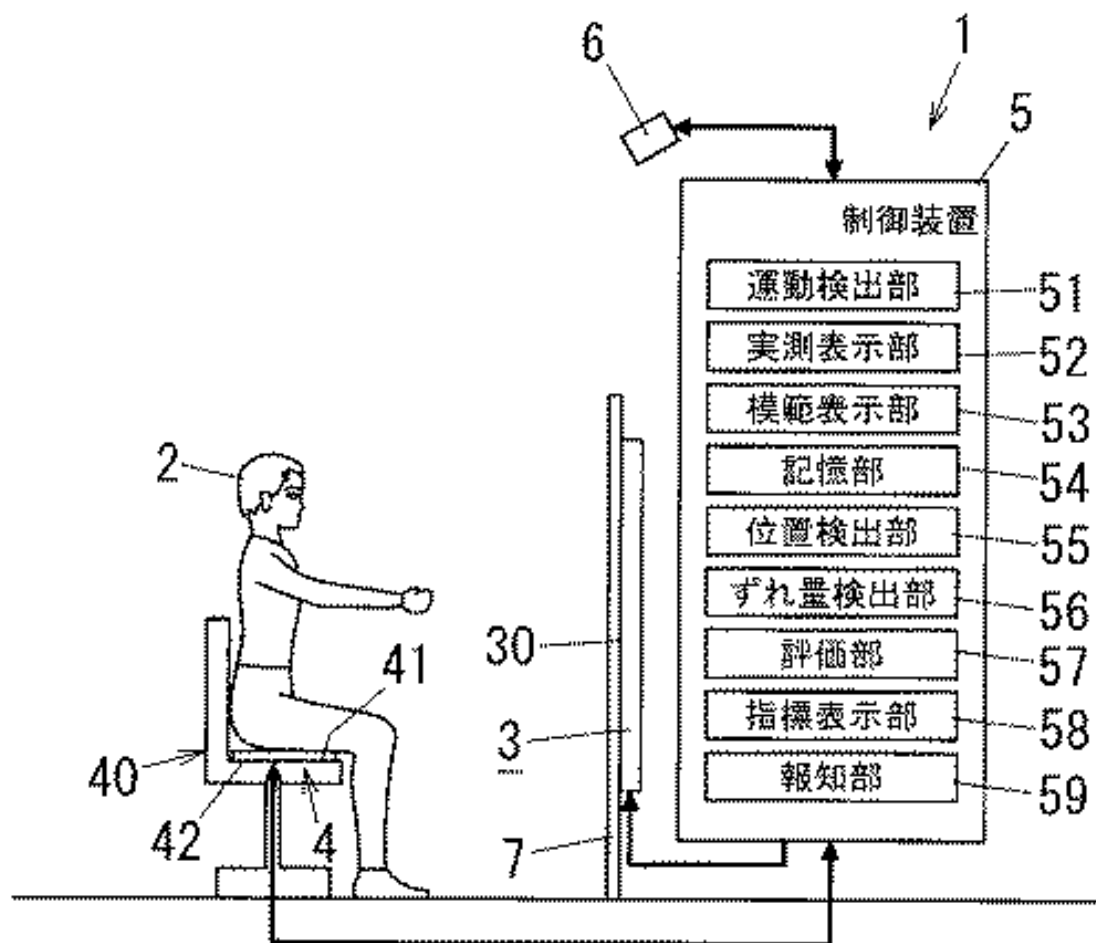
Family 3/12 - FAMPAT - ©Questel

Title

(JP2012157580)

Exercise support system

Images



- 1 運動支援システム
- 2 使用者
- 3 表示装置（提示部）
- 4 測定装置
- 5 制御装置
- 6 距離画像センサ
- 5 1 運動検出部
- 5 5 位置検出部
- 5 6 ずれ量検出部
- 5 7 評価部

Publication numbers with kind code & date

JP5400077

B2

2013-11-01

JP5400077

JP2012157580

A

2012-08-23

JP2012157580



Abstract

(JP2012157580)

PROBLEM TO BE SOLVED: To provide an exercise support system enabling a user to learn correct exercise.

SOLUTION: The exercise support system 1 includes, in a control device 5, an exercise detecting part 51 detecting a change in lateral load distribution associated with the exercise of the user 2 based on the result measured by a measuring device 4, and a position detecting part 55 detecting the positions of the right and left shoulder parts of the user 2 from a distance image obtained by a distance image sensor 6. A shift amount detecting part 56 detects an inclination from a horizontal plane of a straight line that connects both right and left shoulder parts, as a shift amount based on the detected shoulder positions. An evaluation part 57 evaluates whether the exercise is correctly performed, using the change in load distribution detected by the exercise detecting part 51 and the shift amount detected by the shift amount detecting part 56. The evaluation result of the evaluation part 57 is displayed on a display device 3 as a presenting part.

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Inventors

YUASA SHINGO

SAITO HIROYUKI

YOSHIZUKA CHIAKI

Latest standardized assignees - inventors removed

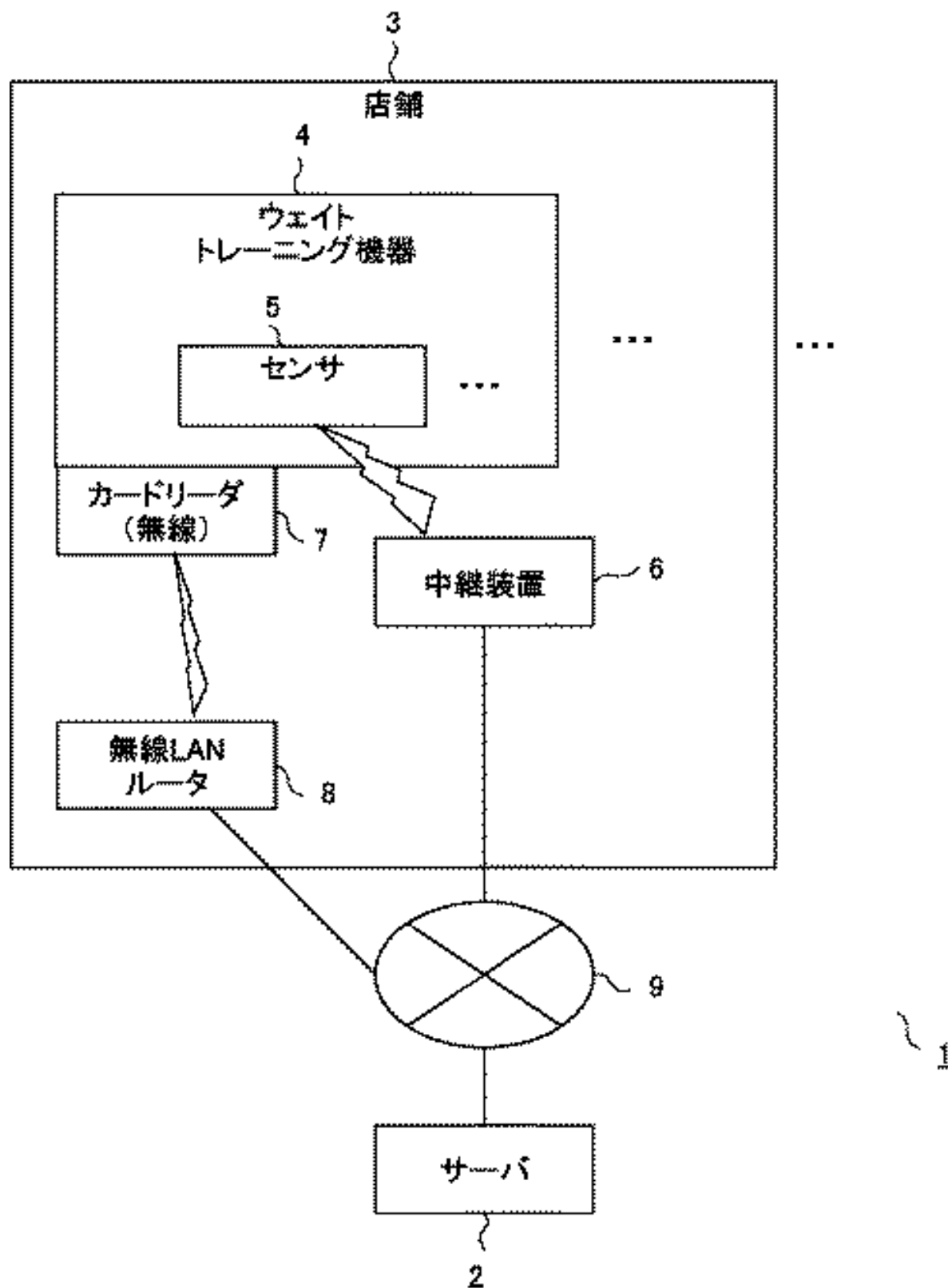
PANASONIC

Family 4/12 - FAMPAT - ©Questel

Title

(JP6566591)

Weight training information management system, the information processing apparatus, weight training information management program and a weight training information management method

Images**Publication numbers with kind code & date**[JP6566591](#)

B1 2019-08-28

JP6566591

**Abstract**

(JP6566591)

PROBLEM TO BE SOLVED: Weight training equipment (wt device) by, for each of the number of attempts and the weight applied to the user attempts to easily manage more efficient weight training management technology is provided.

SOLUTION: Weight training information management system 1 is, WT device 4 are provided with corresponding, WT device 4 user identification information is read using a reader unit transmits 7 and, WT device 4 installed, WT device 4 used in the load detecting unit for detecting the load weight 5 and, WT device 4 installed, the weight from the object distance measuring unit measures the distance to 5 and, the load information and distance information transmission unit for transmitting 6 and, with the user identification information, a time-series of the time-series of a plurality of load information acquired by the distance information, user identification information and a plurality of load information and a plurality of distance based on the information, wt device of each user 4 training with the training condition related to the status information and an information processing apparatus, including. SELECTED DRAWING: Fig. 1

Inventors

Tsukasa Nishijima

Latest standardized assignees - inventors removed

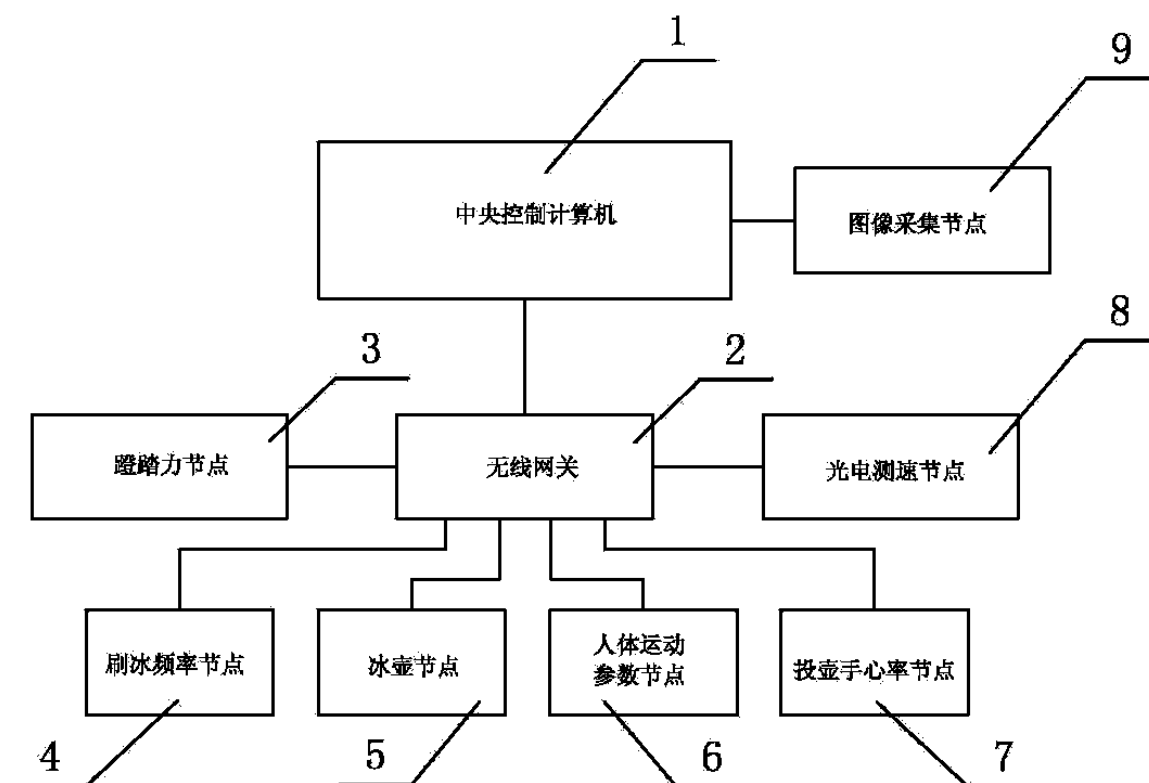
OLORI

Family 5/12 - FAMPAT - ©Questel

Title

(CN103127686)

Comprehensive exercise measurement and auxiliary analysis system for curling exercise training

Images**Publication numbers with kind code & date**

CN103127686	B	2014-10-29	CN103127686B
CN103127686	A	2013-06-05	CN103127686

**Abstract**

(CN103127686)

The invention relates to a comprehensive exercise measurement and auxiliary analysis system for curling exercise training. The comprehensive exercise measurement and auxiliary analysis system comprises a central control computer, a radio network gateway, a stepping force node, an ice brushing frequency node, a curling node, a human motion parameter node, a curling casting hand heart rate node, a photoelectric velocity measurement node and an image collection node, wherein the stepping force node, the ice brushing frequency node, the curling node, the human motion parameter node, the curling casting hand heart rate node and the photoelectric velocity measurement node are connected with the central control computer through the radio network gateway, and the image collection node is in wired connection with the central control computer. A set of complete data acquisition and analysis system for the curling exercise training is provided by the system, and the comprehensive exercise measurement and auxiliary analysis

Inventors

XIAO SHUMING
CHEN QI
XUAN HUA
WANG GONG
WANG JIANMING
WANG XUEFENG

Latest standardized assignees - inventors removed

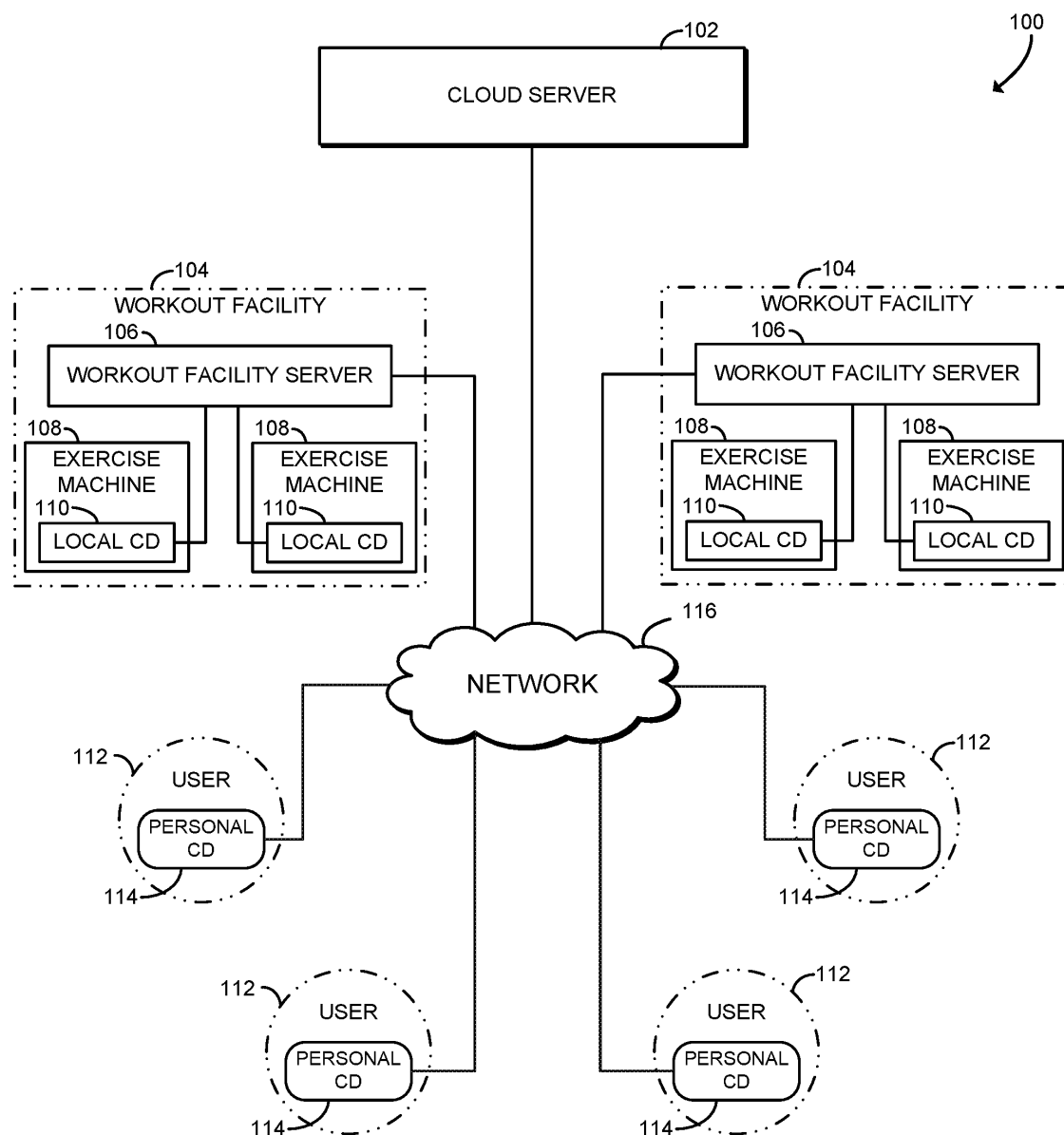
CHINA INSTITUTE OF SPORT SCIENCE

Family 6/12 - FAMPAT - ©Questel

Title

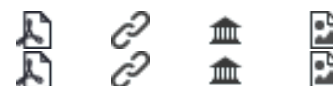
(US10105574)

Technologies for managing user-specific workouts

Images**Publication numbers with kind code & date**

US10105574 B2 2018-10-23
 US20170173394 A1 2017-06-22

US10105574
 US20170173394

**Abstract**

(US20170173394)

Technologies for generating user-specific workout plans and tracking a user's progress are disclosed. The user-specific workout plan may be based on a user's goal and the particular workout facility to be used by the user. During performance of the user-specific workout by the user, the user is provided with workout data regarding the user's performance. Such workout data may be based on sensor data generated by sensors of the exercise machine used by the user and/or other sensors carried or worn by the user.

Inventors

RIDER TOMER

TATOURIAN IGOR

TAITE SHAHAR

Latest standardized assignees - inventors removed

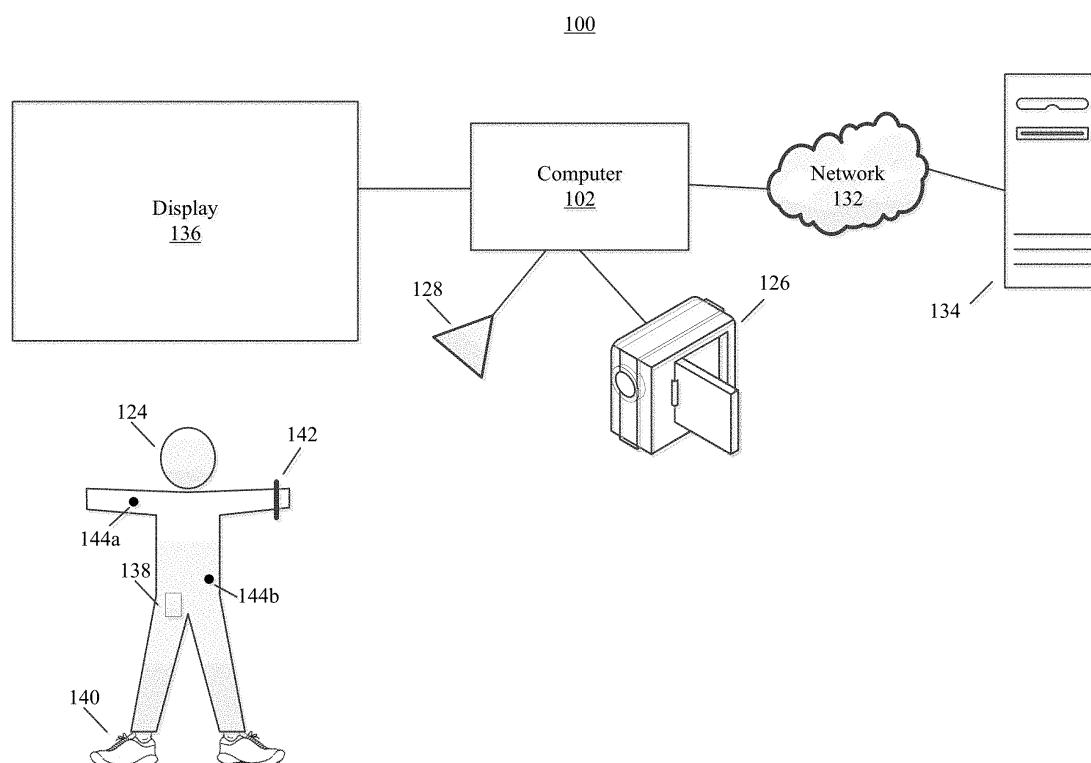
INTEL

Family 7/12 - FAMPAT - ©Questel

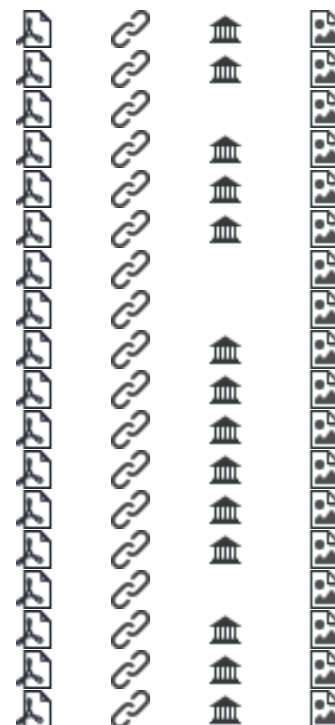
Title

(EP2856368)

Fitness training system with energy expenditure calculation that uses multiple sensor inputs

Images**Publication numbers with kind code & date**

US10369412	B2	2019-08-06	US10369412
JP6318215	B2	2018-04-25	JP6318215
KR101825897	B1	2018-02-05	KR101825897
CN107095679	A	2017-08-29	CN107095679
US20170087414	A1	2017-03-30	US20170087414
CN104519787	B	2017-03-22	CN104519787B
KR20170026646	A	2017-03-08	KR20170026646
KR101713451	B1	2017-03-07	KR101713451
JP2017033594	A	2017-02-09	JP2017033594
US9545541	B2	2017-01-17	US9545541
JP6031190	B2	2016-10-28	JP6031190
JP2015526119	A	2015-09-10	JP2015526119
CN104519787	A	2015-04-15	CN104519787
EP2856368	A2	2015-04-08	EP2856368
KR20150020659	A	2015-02-26	KR20150020659
WO2013/184672	A3	2014-02-20	WO2013184672
WO2013/184672	A2	2013-12-12	WO2013184672
US20130324368	A1	2013-12-05	US20130324368

**Abstract**

(EP2856368)

Systems and methods for prompting a user to perform an exercise and monitoring the exercise are provided. Multiple independent sensors or sensor systems may be used to calculate energy expenditure. Various criteria may be used to manually or automatically select the independent sensor or sensor system or combination that will be used with the energy

expenditure calculations.

Inventors

ARAGONES TERESA

GUERRERO ADRIANA

HOLMES STEVE

SELF CHRISTINA S

WEAST AARON B

WINSER PAUL

BLAHNIK JAY C

Latest standardized assignees - inventors removed

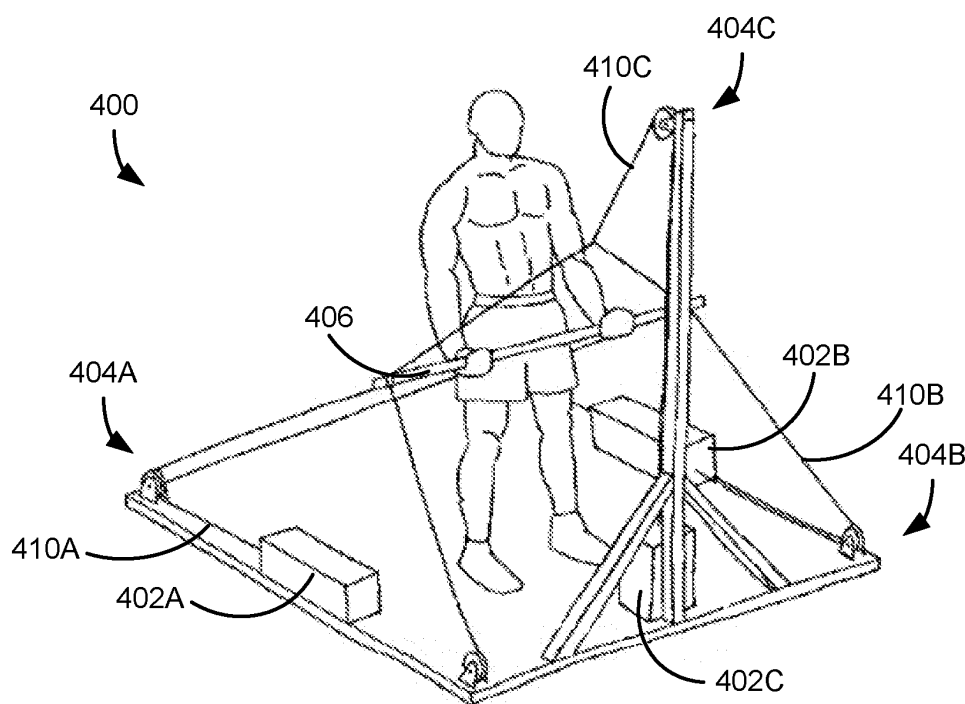
NIKE

Family 8/12 - FAMPAT - ©Questel

Title

(WO2018140959)

Systems for dynamic resistance training

Images**Publication numbers with kind code & date**[CN110769902](#)

A

2020-02-07

CN110769902

[US20180214729](#)

A1

2018-08-02

US20180214729

[WO2018/140959](#)

A1

2018-08-02

WO2018140959

**Abstract**

(WO2018/140959)

Systems and methods for dynamic resistance training are provided that include the use of a dynamic force module. The dynamic force module includes an actuator and controller adapted to control the actuator according to a force profile that specifies the relationship between an operational parameter of the actuator and a measured parameter associated with a user performing an exercise. The dynamic force module is also capable of communicating with a broader network system to facilitate storing and distribution of force profiles and user profile information. The network system further includes features for, among other things, generating and managing force profiles, uploading multimedia content, and tracking user progress.

Inventors

RUBIN ZACHARY M

BALLINGER CHRIS

BALLINGER ANDREW

POLIAKOV ILYA

HAMMER DAN

Latest standardized assignees - inventors removed

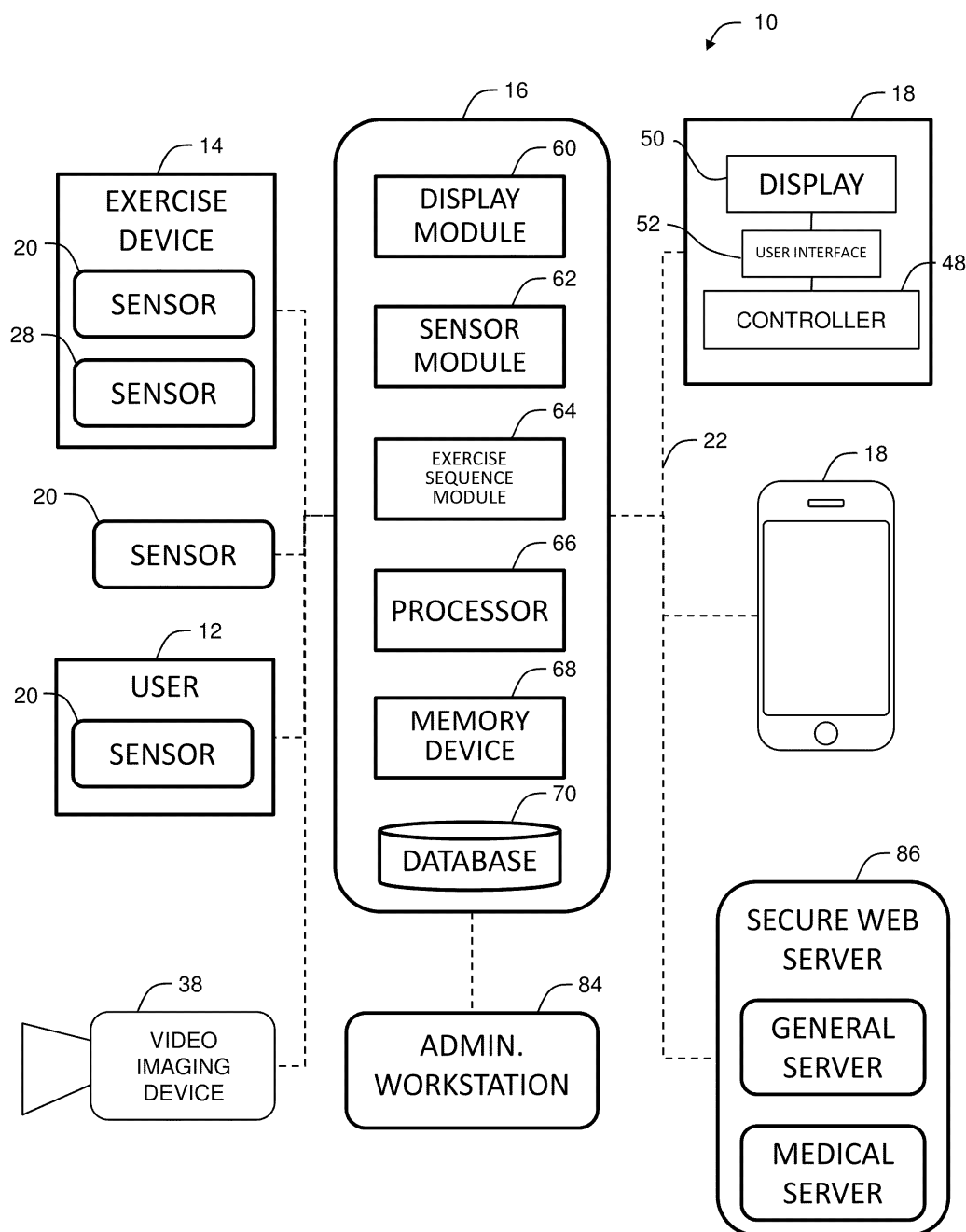
LIFTLAB

Family 9/12 - FAMPAT - ©Questel

Title

(WO2014179707)

System and method for collecting, analyzing and reporting fitness activity data

Images**Publication numbers with kind code & date**

US20160158600	A1	2016-06-09	US20160158600
US9213803	B2	2015-12-15	US9213803
US20140330408	A1	2014-11-06	US20140330408
WO2014/179707	A1	2014-11-06	WO2014179707

**Abstract**

(WO2014/179707)

In one aspect of the invention, a system for monitoring a fitness activity of user performing a fitness activity with an exercise

device is described herein. The system includes a sensor for sensing and transmitting data indicative of an exercise that is being performed with an exercise device, a user identification device, a database, and a processor. The processor is configured to receive a signal indicative of a patron ID and responsively retrieve a patron record being associated with the received patron ID from the database. The processor also determines a planned exercise sequence associated with the patron exercise session as a function of the retrieved patron record, determines a current exercise sequence being performed by the patron, and determines a condition of the patron exercise session as a function of the planned exercise sequence and the current exercise sequence.

Inventors

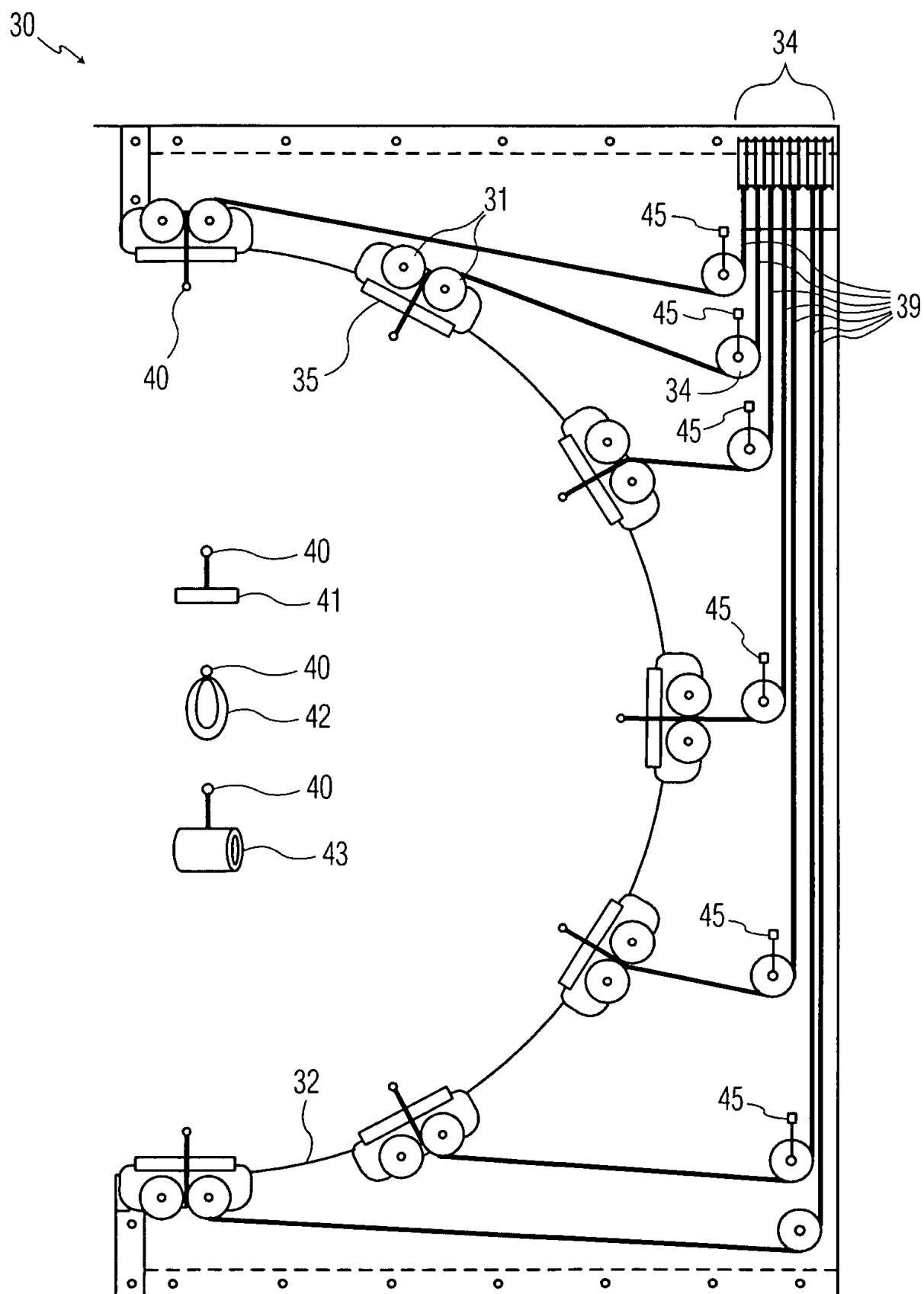
ROLLEY DAVID

Family 10/12 - FAMPAT - ©Questel

Title

(EP1922117)

Medical analysis and recording system

Images

WO2010/120822	A1	2010-10-21	WO2010120822				
US20100197462	A1	2010-08-05	US20100197462				
US20100173758	A1	2010-07-08	US20100173758				
US7682294	B2	2010-03-23	US7682294				
WO2007/030235	A3	2009-05-14	WO200730235				
EP1922117	A2	2008-05-21	EP1922117				
CA2616464	A1	2007-03-15	CA2616464				
WO2007/030235	A2	2007-03-15	WO200730235				
US20070054786	A1	2007-03-08	US20070054786				

Abstract

(EP1922117)

A system is disclosed for monitoring, recording and analysis of exercise in an exercise machine of the type which uses a cable, having a proximal end and a distal end, and a device, such as a handle, that enables a user to push or pull the proximal end of the cable against a resistance that is coupled to the distal end of the cable. A sensor or "load cell" mounted on the frame structure of the machine, for producing an electronic signal representing the instantaneous tensile force in the cable, and an electronic computer or the like, coupled to receive the electronic signal, for storing values representing the tensile force in the cable as a function of time.

Inventors

PIANE ROBERT A

Latest standardized assignees - inventors removed

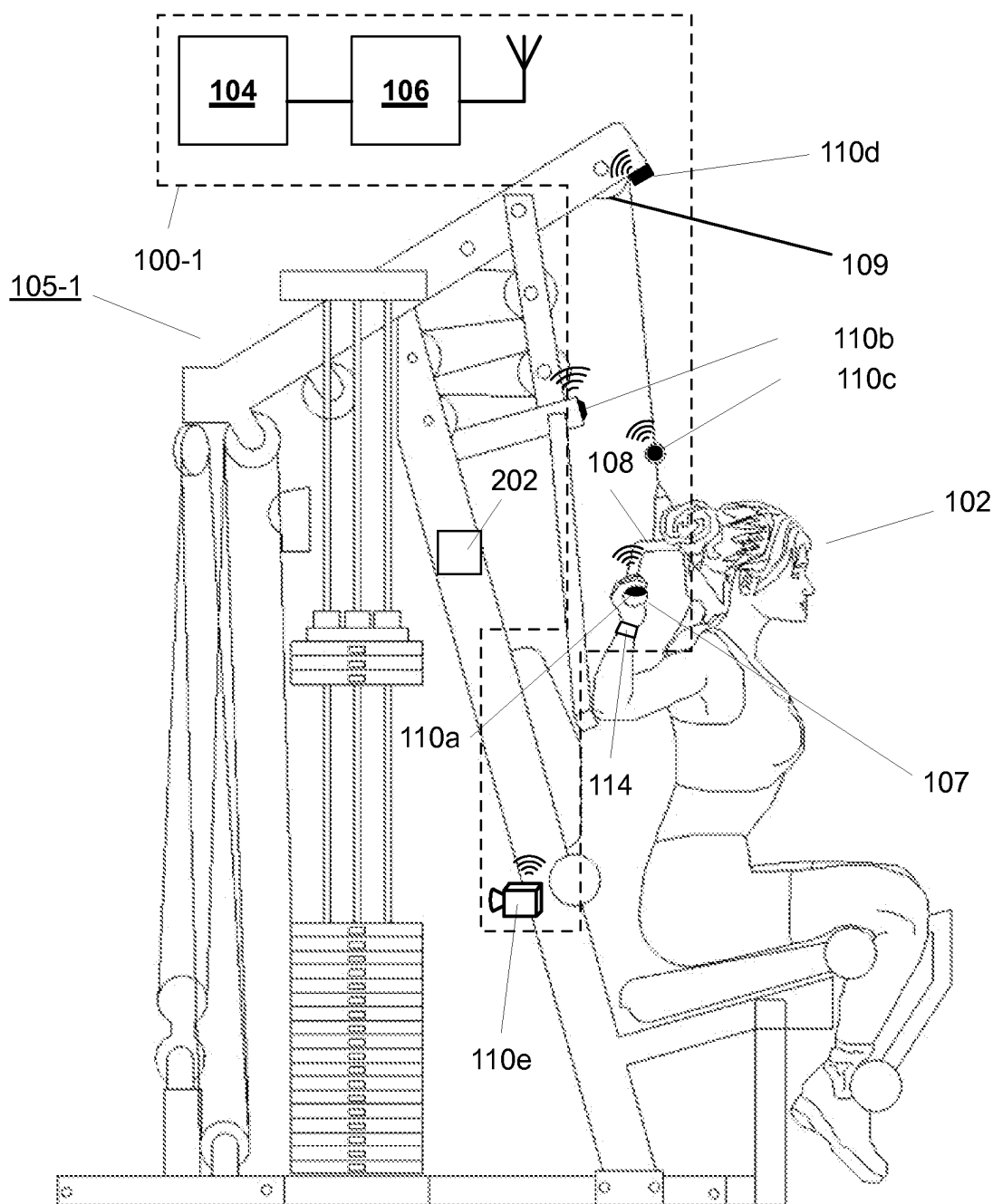
BVP HOLDING

Family 11/12 - FAMPAT - ©Questel

Title

(WO201711464)

Exercise data collection system

Images**Publication numbers with kind code & date**

CA2992443	C	2018-10-02	CA2992443
CA2992443	A1	2017-01-19	CA2992443
WO2017/011464	A1	2017-01-19	WO201711464
US9409053	B1	2016-08-09	US9409053

**Abstract**

(WO2017/011464)

An exercise data collection system for use with an exercise machine, including a computerized processing unit and at least two sensors mounted on or near the exercise machine to capture data indicative of aspects of exercising performed by a

user of the exercise machine. A first of the at least two sensors being of a first sensor type and a second of the at least two sensors being of a second sensor type different from the first sensor type. The sensors including circuitry associated therewith sufficient to allow the sensors to wirelessly communicate captured data for receipt and analysis by the processing unit, which includes programming that will cause the processing unit to analyze the received captured data in conjunction with characteristics of the user so that a representation of the exercise performed by the user can be constructed that reflects the exercising as it was performed by the user.

Inventors

TODD ERIC

Latest standardized assignees - inventors removed

BML PRODUCTIONS

Family 12/12 - FAMPAT - ©Questel

Title

(EP1595522)

Motion training device

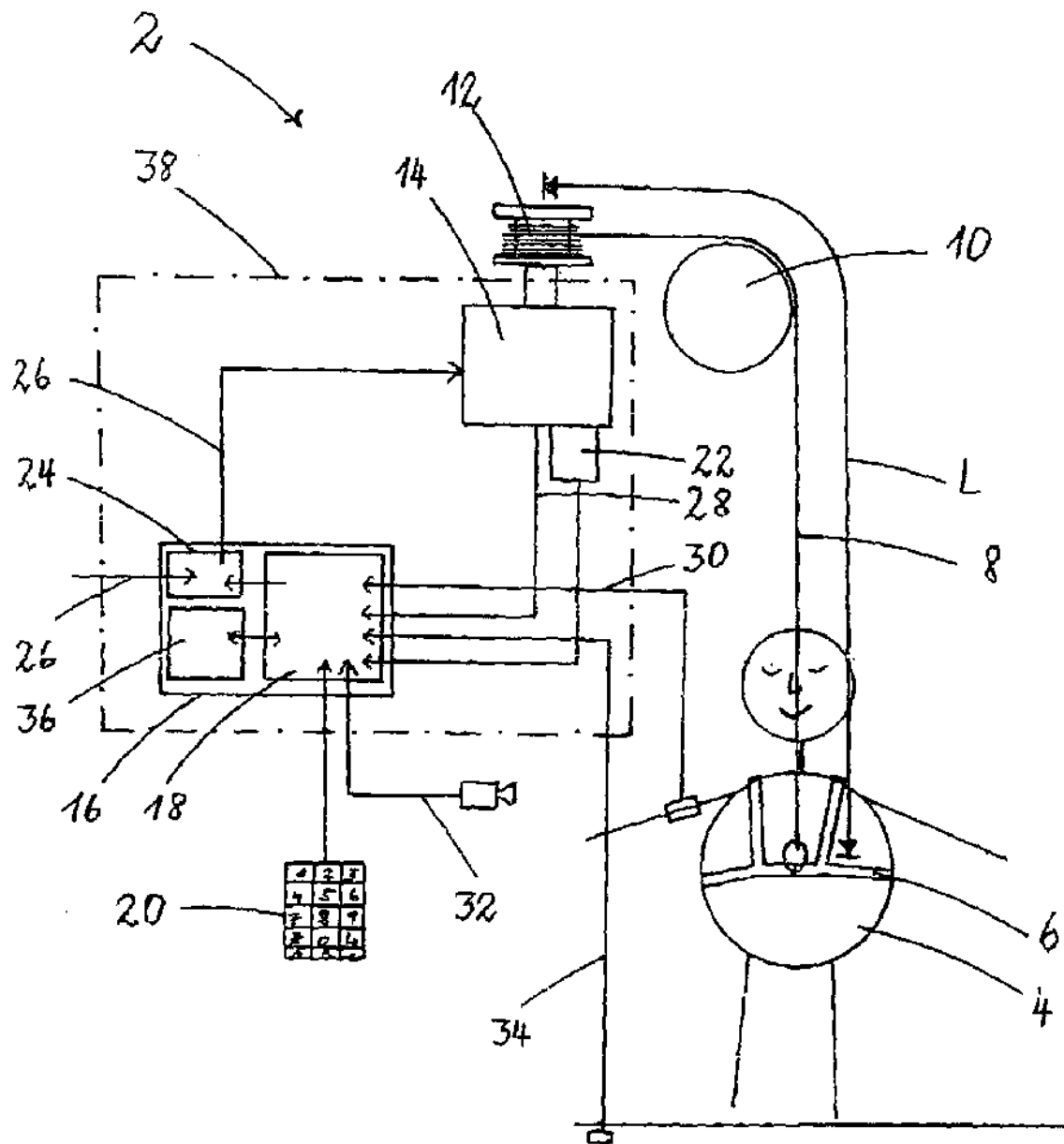
Images

Fig. 1

Publication numbers with kind code & date[DE102004023981](#)

A1 2005-12-08

DE102004023981

[EP1595522](#)

A1 2005-11-16

EP1595522

**Abstract**

(EP1595522)

Exercising device for human being or animal, comprising holding unit with adjustable power

The device (2) can be equipped with a harness (6), joining the user (4) to a rope or a serrated belt (8). The rope or belt (8)

is guided across a return pulley (10) to a drum (12) rotated by an electric drive (14). The weight of the user (4) is compensated by the pulling forces applied on the harness (6). A sensor unit (22) can be used for the transmission of the parameters of a particular user (4) to a control device (16) for an automatic adjustment of the unit (2) or an adjustment can be manually performed as required.

Inventors

OLTHOF ALEXANDER OLDE

Latest standardized assignees - inventors removed

OLTHOF ALEXANDER OLDE