

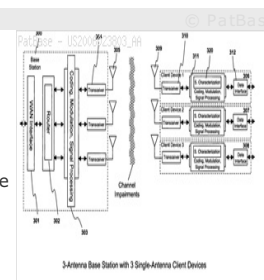
1) Family number: 32582661 (US2006023803A)

## SYSTEM AND METHOD FOR DISTRIBUTED INPUT-DISTRIBUTED OUTPUT WIRELESS COMMUNICATIONS

**Abstract:** Source: US2006023803A A method is described comprising: transmitting a training signal from each antenna of a base station to each of a plurality of client devices, each of the client devices analyzing each training signal to generate channel characterization data, and transmitting the channel characterization data back to the base station; storing the channel characterization data for each of the plurality of client devices; receiving data to be transmitted to each of the client devices; and precoding the data using the channel characterization data associated with each respective client device to generate precoded data signals for each antenna of the base station; and transmitting the precoded data signals through each antenna of the base station to each respective client device.

**Probable Assignee:** REARDEN LLC

**Earliest Publication Date:** 20060130



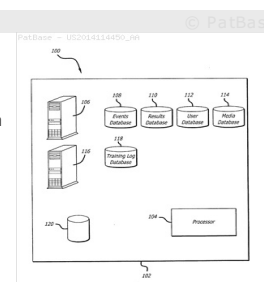
2) Family number: 56296626 (US2014114450A)

## SYSTEM AND METHOD FOR FACILITATING PERSONALIZED TRAINING PLANS FOR AN ATHLETE

**Abstract:** Source: US2014114450A A web-based platform and method for personalizing the training regimen of an athlete. The platform includes a processor and a training log server for maintaining an athlete profile that includes a training record updatable by the athlete and a training plan supplied by a coach.

**Probable Assignee:** FINISH TIME HOLDINGS LLC

**Earliest Publication Date:** 20140424



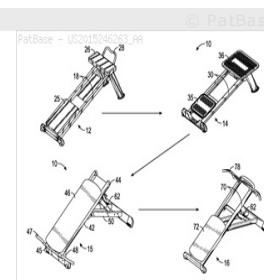
3) Family number: 60266844 (US2015246263A)

## FUNCTIONAL BODY WEIGHT CIRCUIT TRAINING SYSTEM AND METHOD OF USING EXERCISE DEVICES HAVING A SLIDABLE INCLINE

**Abstract:** Source: US2015246263A A system and method of performing functional body weight circuit training has two or more exercise stations or body weight exercise devices arranged at spaced locations in a circuit. Each exercise device is configured for performing one or more body weight resisted exercises different from the exercises performed on other exercise devices in the circuit, and has an incline, a sliding platform slidably engaged on the incline, and at least one additional user engagement device associated with the incline. A user engages the sliding platforms and the user engagement devices of exercise devices at successive exercise stations in the circuit in turn to perform different exercises at each station until a circuit training sequence is completed, with exercise resistance for each exercise provided by the user's body weight engaging the sliding platform.

**Probable Assignee:** TOTAL GYM GLOBAL CORP

**Earliest Publication Date:** 20150903



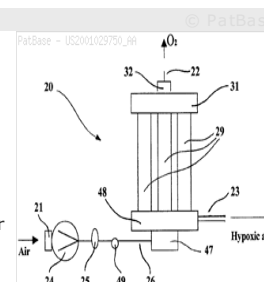
4) Family number: 12369279 (US2001029750A)

## HYPOXIC FIRE PREVENTION AND FIRE SUPPRESSION SYSTEMS AND BREATHABLE FIRE EXTINGUISHING COMPOSITIONS FOR HUMAN OCCUPIED ENVIRONMENTS

**Abstract:** Source: US2001029750A Fire prevention and suppression systems and breathable fire-extinguishing compositions are provided for rooms, houses and buildings, transportation tunnels and vehicles, underground and underwater facilities, marine vessels, aircraft, space stations and vehicles, military installations and vehicles, and other human occupied objects and facilities. The system provides a low-oxygen (hypoxic) fire-preventive atmosphere at standard atmospheric or slightly increased pressure. The system employs an oxygen-extraction apparatus supplying oxygen-depleted air inside a human-occupied area or storing it in a high-pressure container for use in case of fire. A breathable fire-extinguishing composition, being mostly a mixture of nitrogen and oxygen and having oxygen content ranging from 12 percent to 17 percent for fire-preventive environments. The fire-suppression system is provided having fire-extinguishing composition with oxygen concentration under 16 percent, so when released it creates a breathable fire-suppressive atmosphere having oxygen content from 10 to 16 percent. A technology for automatically maintaining a breathable fire-preventive composition on board a human-occupied hermetic object is provided.

**Probable Assignee:** FIREPASS CORP

**Earliest Publication Date:** 19961128



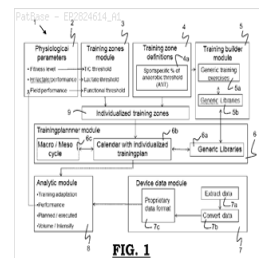
5) Family number: 58283465 (EP2824614A1)

## PLATTFORM ZUR PLANUNG UND ANALYSE VON SPORTTRAINING FÜR EINEN ODER MEHRERE ATHLETEN PLATFORM FOR PLANNING AND ANALYZING SPORTS TRAINING FOR ONE OR MORE ATHLETES

**Abstract:** Source: EP2824614A1 The invention relates to a platform (1) for planning and analysing sports training for one or more athletes, wherein the platform (1) comprises a tool (2) configured to calculate or to measure for each athlete one or more physiology parameter values, wherein the platform (1) further comprises a training builder module (5) configured to build one or more generic libraries (5b, 6a) comprising a plurality of generic training exercises (5a), a calendar (6b) comprising a training plan for one or more athletes and a training planner module (6) enabling an authorized user of the platform (1) to add a generic training exercise (5a) from the one or more generic libraries (5b, 6a) to the calendar (6b) of one or more athletes, the training planner module (6) further being adapted to automatically individualize the generic training exercise (5d) put into the calendar (6b) of the one or more athletes using the one or more physiology parameter values (2) respectively calculated or measured for the one or more athletes, resulting in a calendar (6b) with an individualized training plan (6b) for the respective athlete.

**Probable Assignee:** IQO2 BVBA

**Earliest Publication Date:** 20150114



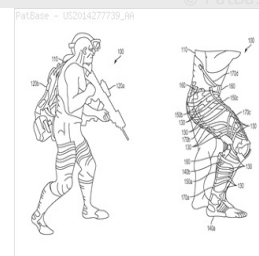
**6) Family number: 57416485** (US2014277739A)

## EXOSUIT SYSTEM

**Abstract:** Source: US2014277739A A flexible exosuit includes rigid and flexible elements configured to couple forces to a body of a wearer. Further, the flexible exosuit includes flexible linear actuators and clutched compliance elements to apply and/or modulate forces and/or compliances between segments of the body of the wearer. The flexible exosuit further includes electronic controllers, power sources and sensors. The flexible exosuit can be configured to apply forces to the body of the wearer to enable a variety of applications. In some examples, the flexible exosuit can be configured to augment the physical strength or endurance of the wearer. In some examples, the flexible exosuit can be configured to train the wearer to perform certain physical tasks. In some examples, the flexible exosuit can be configured to record physical activities of the wearer.

**Probable Assignee:** SRI INT

**Earliest Publication Date:** 20140918



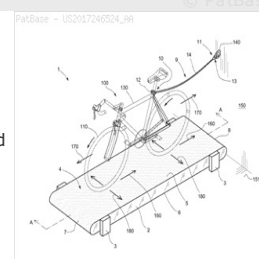
**7) Family number: 61549399** (US2017246524A)

## CYCLING TRAINING APPARATUS WITH STATIONARY MOVEMENT

**Abstract:** Source: US2017246524A Cycling training apparatus (1), comprising a structure (2) that is supported on the floor (151) and a belt (4) that is movable with respect to the structure (2) and forms a closed longitudinal loop on which a bicycle (100) can be supported and ridden. The apparatus (1) comprises a securing element (9; 29) with two opposite ends (10; 11; 30; 31). One end (10; 30) has a first connector (12; 32) configured to be attached to a bicycle (100). The opposite end (11; 31) includes a second connector (13; 33) configured to be attached to a fixed point. The securing element (9; 29) is flexible so that the straight line distance (D) between these ends (10, 11; 30, 31) is variable, enabling the bicycle (100) to move longitudinally over the belt (4). The connectors also allow for transversal movement and lateral tilting of the bicycle (100).

**Probable Assignee:** OREKA TRAINING S L

**Earliest Publication Date:** 20160128



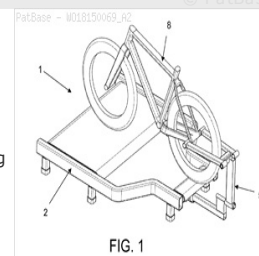
**8) Family number: 65746671** (WO18150069A2)

## CYCLING TRAINING APPARATUS

**Abstract:** A cycling training apparatus (1) comprises a rolling platform (2) with a front rolling zone (3) and a rear rolling zone (4), and an anchoring assembly (5) that carries the bicycle (8) on the rolling platform (2). The anchoring assembly (5) comprises a fork (6) with arms joined at their ends (6') to the axle of the rear wheel (7) of the bicycle (8), and at their other ends (6'') to an intermediate arm (9), wherein the lower portion (9') of the intermediate arm (9) is hinged to a fastening arm (11), defining an axis of rotation "X", the fastening arm (11) being hinged to a laterally moving part (12) that defines an axis of rotation "Z", the axis of rotation "X" and the axis of rotation "Z" crossing each other at a rolling point (13).

**Probable Assignee:** MUNTANE FURIO MIGUEL

**Earliest Publication Date:** 20170517



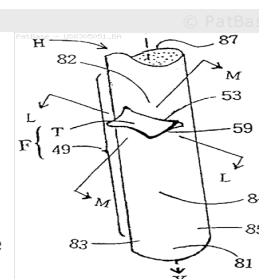
**9) Family number: 20678145** (US6305051B)

## FINGER SUPPORTING STRUCTURE

**Abstract:** Source: US6305051B A finger supporting structure (F) includes a grip portion and a finger supporter (T) formed thereto. The grip portion is of an elongated bar shape and has adequate length and thickness for a hand to grasp. The grip portion is either all or part of a grasping member of an implement or all or part of a gripping member (G) having internal hole to receive the grasping member of an implement. The finger supporter (T) is a laterally extending projection rigidly formed, in one piece, on the grip portion. The finger supporter (T) is angled to be inclined with respect to the axis (X) of the grip portion in order that the resultant force of the muscles of the digits and hand can be generated and exerted to the optimal. The finger supporting structure (F) is embodied in the grasping members of various implements and thereby provides gripping parts (H) having finger supporter (T) of the implements.

**Probable Assignee:** SHO MYONG HO

**Earliest Publication Date:** 19981105



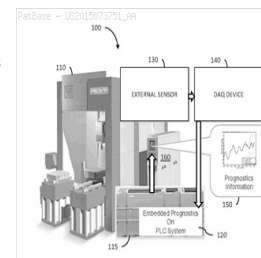
**10) Family number: 54974701** (US2015073751A)

## EMBEDDED PROGNOSTICS ON PLC PLATFORMS FOR EQUIPMENT CONDITION MONITORING, DIAGNOSIS AND TIME-TO-FAILURE/SERVICE PREDICTION

**Abstract:** Source: US2015073751A A prognostics analysis software module is embedded in a programmable logic controller (PLC) software platform. During cycling of the PLC real-time operating program, data is read from sensors and written to a buffer only when the prognostics analysis software module is idle. The prognostics analysis software module is then activated by a system function block of the PLC software platform. Before determining any prognostic information, prediction models within the prognostics analysis software module are automatically trained using features extracted from the sensor data.

**Probable Assignee:** SIEMENS CORP

**Earliest Publication Date:** 20131017



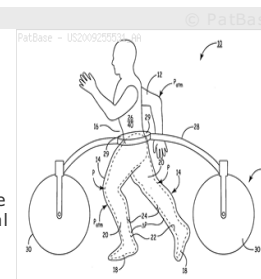
# 11) Family number: 43837130 (US2009255531A)

## PORTABLE SYSTEM FOR ASSISTING BODY MOVEMENT

**Abstract:** Source: US2009255531A The present invention provides a differential pressure body suit with external support against body suit migration. In its preferred embodiment, such body suit may comprise a close-fitting, multi-layered suit sealed against a mammal's skin to contain the differential pressure, or a looser-fitting suit that bends at the mammal's joints with minimal force. External support means include either fixed or movable mechanical supports attached to the body suit, extraordinary air pressure levels for making the body suit rigid, or exoskeletons attached to the body suit. A cyclic control system can turn the differential pressure condition within the body suit on and off on a selective basis to accommodate the movement of the legs of the mammal. This differential pressure body suit provides a portable and convenient system for, e.g., rehabilitating a skeletal joint injury or training the mammal for injury prevention or athletic performance. The pressurization reduces the weight of the body to greater or lesser extents, and offloads the weight to the ground through the external support means.

**Probable Assignee:** LITE RUN INC

**Earliest Publication Date:** 20091015



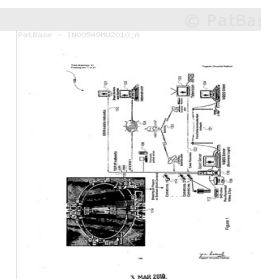
# 12) Family number: 45954294 (IN00549MU2010A)

## AN APPARATUS, SYSTEM, AND METHOD FOR AUTOMATED PRODUCTION OF RULE BASED NEAR LIVE SPORTS EVENT IN THE FORM OF A VIDEO FILM FOR ENTERTAINMENT

**Abstract:** Source: IN00549MU2010A An apparatus, system, and method for automated production of sport video using expert sports video production rules. Methods and systems for automated rule based real and live sports video or film or movie productions by merging pre-created standardize video clips as per administrator score or points or goal settings and domain or subject specific film or movie production rules by domain and subject specific rule engine and real time or near real time live broadcasting or telecasting or streaming or screening or transmission or playing or recording live or real sports match event via multiple communication networks on multiple types of user(s) device(s) to viewers, e.g. real and live sports comprising cricket, baseball, golf, football, soccer, basketball, hockey, tennis, racing.

**Probable Assignee:** RATHOD YOGESH CHUNILAL

**Earliest Publication Date:** 20100709



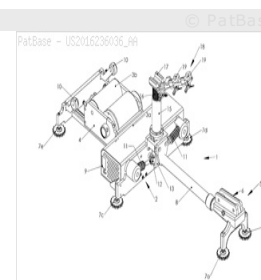
# 13) Family number: 58867702 (US2016236036A)

## BICYCLE TRAINER

**Abstract:** Source: US2016236036A A bicycle trainer for mounting a bicycle includes a roller for engaging the rear wheel of the bicycle, and a motor controlled by an electrouros unit and providing driving and braking forces to the roller. The bicycle trainer is used in a method for comparative home training.

**Probable Assignee:** SBI MEDIA HOLDING SA

**Earliest Publication Date:** 20150402



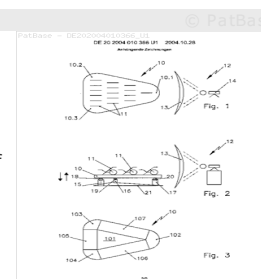
# 14) Family number: 31151054 (DE202004010366U1)

## SUPPORT PLATFORM FOR FITNESS EQUIPMENT IS SUPPORTED ON THREE HYDRAULIC RAMS TO TILT IN DIFFERENT DIRECTIONS AND WITH A PROJECTION SCREEN TO SIMULATE ROAD TRAVEL

**Abstract:** Source: DE202004010366U1 A support platform (10) for fitness equipment, e.g. static cycling machines, is supported on three hydraulic rams which enable the platform to tilt in different directions. This is achieved by synchronous operation of pairs of rams. The rams are mounted on a support frame and connect to the underside of the platform via ball and socket joints. The fitness machines all face the same way towards a screen onto which simulated road travel is projected.

**Probable Assignee:** SLUNITSCHEK STEPHAN

**Earliest Publication Date:** 20040923



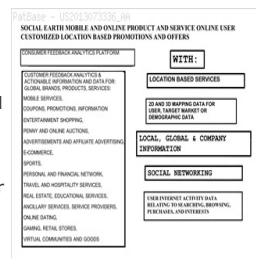
# 15) Family number: 53204710 (US2013073336A)

## SYSTEM AND METHOD FOR USING GLOBAL LOCATION INFORMATION, 2D AND 3D MAPPING, SOCIAL MEDIA, AND USER BEHAVIOR AND INFORMATION FOR A CONSUMER FEEDBACK SOCIAL MEDIA ANALYTICS PLATFORM FOR PROVIDING ANALYTIC MEASFUREMENTS DATA OF ONLINE CONSUMER FEEDBACK FOR GLOBAL BRAND PRODUCTS OR SERVICES OF PAST, PRESENT, OR FUTURE CUSTOMERS, USERS OR TARGET MARKETS

**Abstract:** Source: US2013073336A A method, apparatus, non-transitory computer readable storage medium, computer system, network, or system, is provided for using location information, 2D and 3D mapping, social media, and user behavior and information to provide alternative a consumer feedback social media analytics platforms for providing analytic measurements data of online consumer feedback for global brand products or services of past, present or future customers, users, and/or target markets, for companies, organizations, government agencies, and the like, by electronically collecting and analyzing, on a networked computer system using a processor, qualitative or quantitative online social media online communications, activity, and online communications and activity relevant to consumer products or services, or promotions thereof, of interest, in order to provide targeted, location based, 2D or 3D mapped, or impressions to generate online location information data or promotions to provide improved or desired customer perception or sentiment regarding a company's products, services or promotions thereof

**Probable Assignee:** GOOGLE INC

**Earliest Publication Date:** 20130321



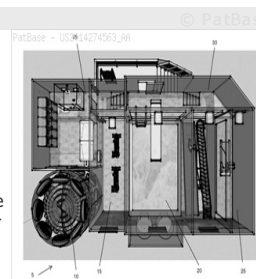
**16) Family number: 57420008 (US2014274563A)**

## EXERCISE CELL, KETOSIS/WEIGHT LOSS INDUCING EXERCISE MACHINE (KWIEM), KETOSIS INDUCING APPARATUS (KIA)

**Abstract:** Source: US2014274563A A unique concept of exercise and weight loss that takes place in a new invention utility, namely the exercise cells or the Ketone Inducing Apparatus is disclosed. The apparatus consists of four exercise cells to simulate four different exercise categories in extreme environments, namely walk/run/hike in a cold mountain environment, swim/water jogging in a cold water marine environment, cycling in a hot, humid, rainy, tropical forest environment, and gravitational rotation in a hot dry air windy space or desert environment. The purpose of this activity is to maximally stimulate the process of Ketosis (breakage of the human fat) to form smaller molecules of Ketones. The Ketones will then be eliminated both passively from the human body via urination and exhalation and actively through intracellular burn oxidation, hence reducing the extra fat load and reducing obesity. The reduction of the human obesity will enhance the human health status and reduce the complication of obesity namely diabetes, heart disease, and reduce the human mortality and morbidity.

**Probable Assignee:** SHETA MOSTAFA

**Earliest Publication Date:** 20140918



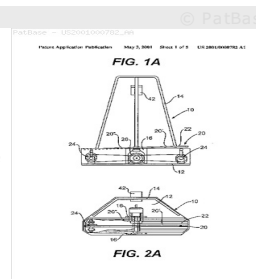
**17) Family number: 42437094 (US2001000782A)**

## DEVICE FOR STIMULATING MUSCLES

**Abstract:** Source: US2001000782A A device and method is shown for invoking a muscle's natural involuntary, reflexive response or stretch reflex by imparting a sudden increase in load on the muscle over a defined period of time from a predetermined base load at which the muscle has assumed a baseline tonus, and over a predetermined amplitude of motion. The muscle is stimulated by cycling the load with a frequency of between 1 and 60 Hz, or more preferably between 10 and 30 Hz, and an amplitude of displacement of the muscle between 2 and 50 mm, or more preferably between 5 and 10 mm. The force input to the muscle can be provided by either the mass of the body to which the muscle is connected or by an external mass or resistance to motion. A seesaw platform can be oscillated in a vertical direction at the correct frequency and amplitude. Alternatively, a surface adapted to be fixed to a portion of the body can be oscillated relative to an external mass or other element that resists motion due to gravitational, frictional or inertial forces.

**Probable Assignee:** SCHIESL HANS

**Earliest Publication Date:** 19980305



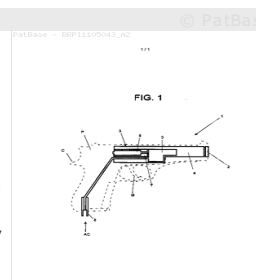
**18) Family number: 55024466 (BRPI1105043A)**

## DISPOSITIVO PNEUMATICO DE RECUEO PARA ARMAS DE TREINAMENTO CURTAS OU LONGAS NCO RESTRITAS E PROCEDIMENTO DE ATUACCO PNEUMATIC DEVICE FOR RETREAT FOR WEAPONS TRAINING SHORT OR LONG NCO RESTRICTED AND PROCEDURE ATUACCO (MACHINE TRANSLATION)

**Abstract:** Source: BRPI1105043A 1 RESUMO "DISPOSITIVO PNEUMATICO DE RECUEO PARA ARMAS DE TREINAMENTO CURTAS OU LONGAS NAO RESTRITAS E PROCEDIMENTO DE ATUACAO", trata, mais particularmente de um novo 5 dispositivo (1) pneumatico de recuo, notadamente desenvolvido para ser aplicado em armas de fogo (P) para treinamento de efetivo policial, profissionais da seguranga patrimonial e pessoal, entre outros profissionais, sendo referido dispositivo (1) particularmente pertencente ao campo das adaptacoes para treinamento, adaptacoes de canos para reforcar o retrocesso, io simuladores de armas, aparelhos para a instrucao ou pratica de pontaria ou assentamento de armas, sendo que o objetivo do dito dispositivo (1) pneumatico e proporcionar a conversao de uma pistola (P) convencional em uma arma de treinamento eficaz, e que nao utiliza muniacao convencional, mas sim, um modulo laser (2) durante aacao de disparo e ainda simula o recuo da 15 arma, exatadamente como numa situacao real, atraves de um dispositivo pneumatico (3). 1 SUMMARY "RETREAT OF PNEUMATIC DEVICE FOR TRAINING OF WEAPONS SHORT OR LONG NOT RESTRICTED AND PROCEDURE of action" deals more particularly to a new 5 device (1) recoil pneumatic, especially developed for use in firearms (P) for police personnel training, professional asset security and staff, and other professionals, said device (1) particularly pertaining to the field of adaptations to training, adaptations pipes to reinforce the kicker, io weapons simulators, devices for instruction or practicing marksmanship or settlement of weapons, and the purpose of the said device (1) Pneumatic and provide the conversion of a gun (P) standard for effective training weapon, and that does not use conventional ammunition, but rather, a laser module (2) during the shooting action is still simulates the recoil of the gun 15, just like in a real situation, through a pneumatic device (3).

**Probable Assignee:** SIMULOGICA SIMULACCO COMPUTACIONAL E SIST S LTDA M

**Earliest Publication Date:** 20131001



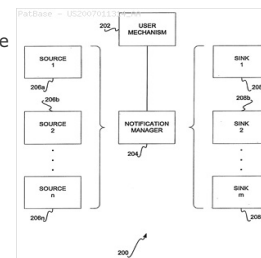
**19) Family number: 31484189 (US2007011314A)**

## NOTIFICATION PLATFORM ARCHITECTURE

**Abstract:** Source: US2007011314A An architecture for a notification platform is disclosed. In one embodiment, the architecture includes a user mechanism, one or more notification sources and sinks, and a notification manager. The user mechanism stores information regarding notification parameters of a user, such as the user's default notification preferences, and may also contain, access, and/or infer contextual information. Each notification source generates notifications intended for the user, while each notification sink can provide the notifications to the user. Notification sources and sinks provide information via standardized notification schema. The notification manager is designed to appropriately convey the notifications generated by the sources to the sinks, based on information provided by the user mechanism, and by the sources and sinks. As disclosed, the architecture is applicable to entities other users as well.

**Probable Assignee:** MICROSOFT CORP

**Earliest Publication Date:** 20050125



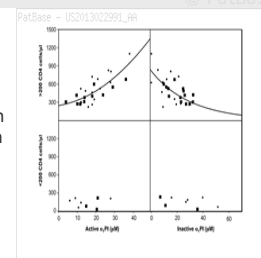
**20) Family number: 48789423 (US2013022991A)**

## CELL FREE CD4 QUANTITATION AND METHODS OF USE

**Abstract:** Source: US2013022991A The present invention provides a low-cost cell-free assay, the a-test, that provides point-of-care CD4 enumeration using a single platform assay thereby eliminating the need for high-end instrumentation, calibrated pipetting, and specialized technical training. The number of CD4 T cells in blood is driven by the concentration of the protein  $\alpha$ 1proteinase inhibitor ( $\alpha$ 1PI,  $\alpha$ 1antitrypsin, serpin A1). The invention features, in part, methods for determining the number of CD4+ T cells in a sample comprising determining the concentration of  $\alpha$ 1 proteinase inhibitor ( $\alpha$ 1PI) in a sample; wherein the number of CD4+ T-cells is related to the concentration of  $\alpha$ 1PI.

**Probable Assignee:** ALPHA 1 BIOLOGICS CORP

**Earliest Publication Date:** 20110428



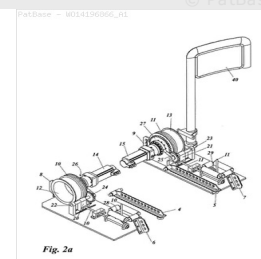
**21) Family number: 57991428 (WO14196866A1)**

## AN APPARATUS FOR MULTIPURPOSE TRAINING AND EXERCISE

**Abstract:** The present invention provides for an apparatus for multipurpose physical training and fitness exercise. The apparatus comprise of a base frame or console configured to be placed on a floor with a pair of cables and drums run by electric motors. The electric motors are controlled by a computer which enables the motors to produce force and haptic (tactile) sensations to the user. The console has means for fixing human supports and training gear for a number of different power and weight training exercises.

**Probable Assignee:** BADARNEH ZIAD

**Earliest Publication Date:** 20141211



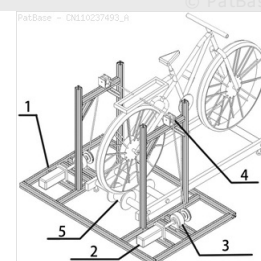
**22) Family number: 75887871 (CN110237493A)**

## CYCLING SIMULATION PLATFORM WITH BICYCLE POSTURE CONTROL FUNCTION

**Abstract:** Source: CN110237493A The invention discloses a cycling simulation platform with a bicycle posture control function. The cycling simulation platform comprises a machine frame for supporting a bicycle, and further comprises electric motors, transmission components applying force to the bicycle, clutches disposed between the electric motors and the transmission components for controlling the magnitude of driven force of the transmission components, sensors for detecting running parameters of the bicycle, a microprocessor receiving detection signals of the sensors, calculating the detection signals and outputting calculation results and a clutch control system for receiving the calculation results of the microprocessor and performing real-time control over the clutches according to the results. The cycling simulation platform with the bicycle posture control function can access a virtual reality system through sensor information for more realistic cycling simulation, can be used for balance function recovery of patients with impaired nervous systems, can be used for training the balance capacity of cycling beginners to professional athletes, and has a wide range of use and broad prospects.

**Probable Assignee:** UNIV ZHEJIANG

**Earliest Publication Date:** 20190917



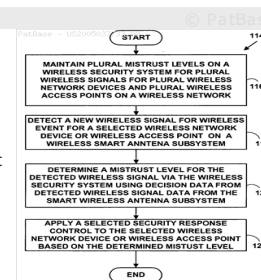
**23) Family number: 31575280 (US2005037733A)**

## METHOD AND SYSTEM FOR WIRELESS INTRUSION DETECTION PREVENTION AND SECURITY MANAGEMENT

**Abstract:** Source: US2005037733A A method and system for wireless intrusion detection, prevention and security management. The method and system provides autonomous wireless intrusion detection and prevention, with minimal or no operator intervention. The method and system integrates a physical layer (e.g., OSI layer 1) a smart wireless radio frequency (RF) antenna subsystem with a data-link layer (e.g., OSI layer 2) wireless security system management platform.

**Probable Assignee:** 3E TECHNOLOGIES INT INC

**Earliest Publication Date:** 20050217



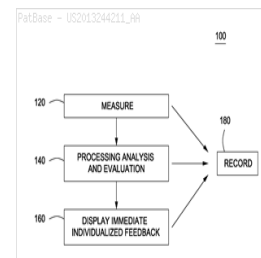
**24) Family number: 54784789 (US2013244211A)**

## SYSTEMS AND METHODS FOR MEASURING, ANALYZING, AND PROVIDING FEEDBACK FOR MOVEMENT IN MULTIDIMENSIONAL SPACE

**Abstract:** Source: US2013244211A The present invention provides systems and methods that measure and analyze a user's movement during a specific activity, then provide immediate, focused feedback as to how the user can modify the movement.

**Probable Assignee:** BOARD OF TRUSTEES OF LELAND STANFORD JUNIOR UNIV

**Earliest Publication Date:** 20130919



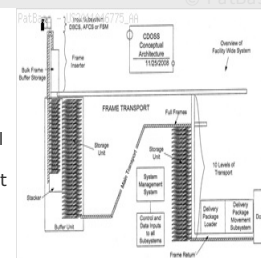
**25) Family number:** 43025750 (US2011046775A)

### **FACILITY WIDE MIXED MAIL SORTING AND/OR SEQUENCING SYSTEM AND COMPONENTS AND METHODS THEREOF**

**Abstract:** Source: US2011046775A The invention generally relates to a facility wide sorting and/or sequencing system for improving product processing operations and, more particularly, to a facility wide system and related functionality for simultaneously sorting and sequencing mixed mail pieces such as, for example, flats and letter mail pieces. The flats and letter mail pieces are placed in frames so that all types of mail pieces can be sorted and/or sequenced simultaneously through merging and diverting a stream of filled trays into and out of different streams at a full or substantially full transport speed.

**Probable Assignee:** LOCKHEED MARTIN CORP

**Earliest Publication Date:** 20090319



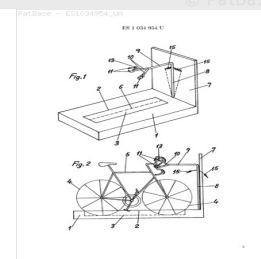
**26) Family number:** 34645178 (ES1034954Y)

### **"DISPOSITIVO DE ENTRENAMIENTO PARA CICLISTAS Y PARA LA PRACTICA DE EJERCICIOS FISICOS"**

**Abstract:** Source: ES1034954U 1. DISPOSITIVO DE ENTRENAMIENTO PARA CICLISTAS Y PARA LA PRACTICA DE EJERCICIOS FISICOS, ESENCIALMENTE CARACTERIZADO POR COMPRENDER UNA PLATA FORMA BASE DE CONSTITUCION RECTANGULAR QUE EN SU PLANO SUPERIOR Y CENTRADAMENTE, DISPONE DE UNA ZONA LONGITUDINAL ENMARCADA POR UNA CAVIDAD RECTANGULAR, POR LA QUE DISCURRE UNA CINTA TRANSPORTADORA SOBRE LA CUAL SE DISPONE APOYADA POR SUS RUEDAS UNA BICICLETA QUE PERMANECE FIJADA AL APARATO, DISPONIENDO ADEMAS LA PLATAFORMA BASE, DE DOS BARANDILLAS O PASAMANOS DE SEGURIDAD, QUE SE ENCUENTRAN EN LOS EXTREMOS LATERALES DE LA BASE, MONTADAS A UNA ALTURA ACONSEJABLE. Training device for cyclists and practice of physical exercises essentially characterized by comprising a silver base form of constitution in your rectangular top and centrally, it has a longitudinal zone framed by a rectangular cavity, along which a conveyor on which have supported by their wheels a bicycle remains attached to the apparatus further providing the base platform, two rails or rail safety, which are at the ends side base mounted to a height inadvisable. (Machine-translation by Google Translate, not legally binding)

**Probable Assignee:** CARBONELL TENDERO JUAN JOSE

**Earliest Publication Date:** 19970216



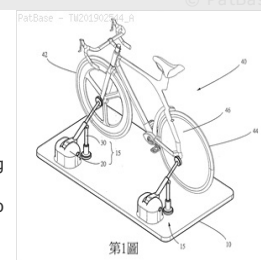
**27) Family number:** 69781623 (TW201902544A)

### **VIRTUAL REALITY AND FUZZY CONTROL TECHNOLOGY BASED BICYCLE TRAINING DEVICE CAPABLE OF SIMULATING SITUATIONS OF INCLINING LEFT AND RIGHT WHEN MAKING TURNS, AND LIFTING UP AND DOWN WHEN CYCLING UPHILL AND DOWNHILL OR ENCOUNTERING OBSTACLES**

**Abstract:** Source: TW201902544A A virtual reality and fuzzy control technology based bicycle training device comprises at least: a central processing unit, a fuzzy logic controller, and a platform, wherein the central processing unit is electrically connected with an image output device and the fuzzy logic controller. By introducing the fuzzy control technology into the central processing unit and being converted into a language program and embedded into the virtual environment, information obtained by calculation is used to control the movement of a plurality of displacement devices arranged on the top surface of the platform, so that the front and rear wheels of the bicycle are capable of simulating situations of inclining left and right when making turns, and lifting up and down when cycling uphill and downhill or encountering obstacles according to the virtual reality system.

**Probable Assignee:** CHIENKUO TECHNOLOGY UNIV

**Earliest Publication Date:** 20180521



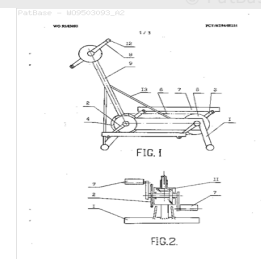
**28) Family number:** 12792623 (WO9503093A2)

### **EXERCISE BICYCLE**

**Abstract:** The invention relates to rehabilitative medicine and physical training and can be used for enhancing general health as well as for exercising the muscles in the lower and upper extremities. The problem addressed by the present application is to design a device which will facilitate simultaneous and comfortable exercising through cycling of the legs and arms. The proposed exercise bicycle comprises a frame (1) with lower front and rear crank arms (2 and 3) connected in tandem, said crank arms being provided with chain wheels (4, 5) on carriage shafts. Said chain wheels have the same number of teeth, are connected by a common chain transmission (6) and rotate in-phase. Two elongated pedal platforms (7), on which the person exercising stands, are secured to the pins of the arms of the lower crank arms. The upper crank arm (8) is mounted on the column (9) and connected with the front lower crank arm (2) by a long shaft (10) with conical toothed pinions (11). Handles (12) are attached by pins to the upper crank arm which the person exercising holds while on the bicycle. The upper crank arm (8) can be mounted in a sleeve (14) and can be provided with a toothed wheel (15). In order to overcome the problem of "dead points" in the pedal platform, the exercise bicycle can be provided with flywheels (19) whose discs are arranged horizontally in the base plate (20) and can be made to rotate by vertical shafts (21).

**Probable Assignee:** SLAVIN VALERIJ VJACHESLAVOVICH

**Earliest Publication Date:** 19950202



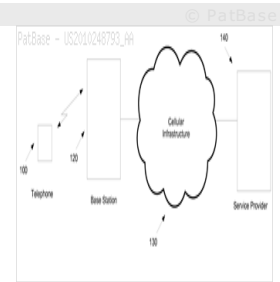
**29) Family number: 46990272** (US2010248793A)

#### METHOD AND APPARATUS FOR LOW COST HANDSET WITH VOICE CONTROL

**Abstract:** Source: US2010248793A Systems, methods and apparatuses for a unique wireless handset are described. One embodiment may be directed to a wireless handset that uses voice recognition to simplify the operation of the handset and therefore allows the handset to include fewer input keys. Using speaker dependent voice recognition (VR) software, the recognition rates for most users can exceed 95 percent. The reliability of the speaker dependent voice recognition used in the embodiment, allows for a design that eliminates the traditional keypad and creates a large space on the face of the handset for prominent corporate or institutional logos and images. This form factor provides an excellent platform for branding and marketing promotional applications.

**Probable Assignee:** REAL PHONE CARD CORP

**Earliest Publication Date:** 20100930



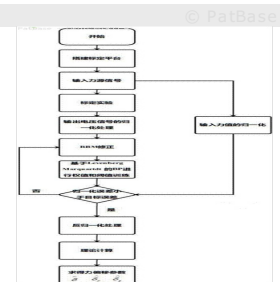
**30) Family number: 68212679** (CN107587955A)

#### CALIBRATION METHOD OF ROCKET ENGINE THRUST OFFSET BASED ON DEEP RELIABILITY NETWORK

**Abstract:** Source: CN107587955A The invention provides a calibration method of rocket engine thrust offset based on a deep reliability network, and belongs to the field of piezoelectric sensor measurement. According to the method, a force offset calibration experiment is completed through construction of an experiment calibration platform at first; then output voltage signals are subjected to normalization processing and then RBM correction, weight and threshold training is conducted through BP of LevenbergMarquardt, and after training times is reached or the normalization error is smaller than a target error, a nonlinear deep reliability network compensation network is achieved; after a value compensated through the deep reliability network is subjected to anti-normalization processing, theoretical calculation is conducted, and the compensation value of the force offset is obtained. The method has the advantages that the cycling steps are small, the efficiency is high, the nonlinear error is small, fitting and generalizing precision is high, precise calibration of the rocket engine thrust offset is achieved, and the method has important reference value for nonlinear calibration and error processing.

**Probable Assignee:** UNIV DALIAN TECH

**Earliest Publication Date:** 20180116



**31) Family number: 67490529** (CA2929508A)

#### SMARTEST CITIES

**Abstract:** Source: CA2929508A New models for cutting edge technologies to serve interests of super cities better. New products and services that a city should have that is helpful, healthy, and helps people perform and locals and tourists can enjoy.

**Probable Assignee:** VOON GERARD

**Earliest Publication Date:** 20171110

**32) Family number: 75050988** (US2017323285A)

#### WEARABLE PERSONAL DIGITAL DEVICE FOR FACILITATING MOBILE DEVICE PAYMENTS AND PERSONAL USE

**Abstract:** Source: US2017323285A Provided is a wearable personal digital device for point of healthcare saliva testing. The wearable personal digital device may comprise a processor, a display, biometric sensors, activity tracking sensors, a memory unit, a communication circuit, a housing, an input unit, a projector, a timepiece unit, a haptic touch control actuator, a band, a mounting clip, a saliva sample insert apparatus, a pinhole, a light emitting diode board, a battery, and a set of sensors. The processor may be operable to receive data from an external device, provide a notification to a user based on the data, receive a user input, and perform a command selected based on the user input. The housing may be adapted to enclose the components of the wearable personal digital device. The band may be adapted to attach to the housing and secure the wearable personal digital device on a user body.

**Probable Assignee:** AMOBILEPAY INC

**Earliest Publication Date:** 20171107

