

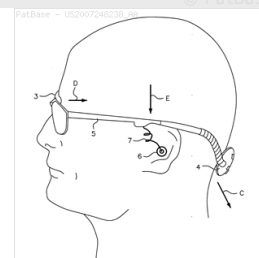
1) Family number: 34588217 (US2007248238A)

BIOLOGICALLY FIT WEARABLE ELECTRONICS APPARATUS AND METHODS

Abstract: Source: US2007248238A Detachable wearable electronic eyeglasses and head mounted gear with a plurality of electronic functions and interchangeable electronic function, and a wearable computer with optimal weight distribution and stretchable arms.

Probable Assignee: GEELUX HOLDINGS LTD

Earliest Publication Date: 20070621



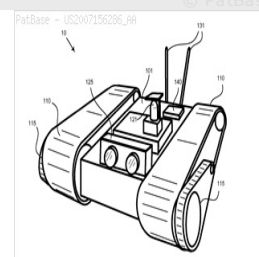
2) Family number: 34714894 (US2007156286A)

AUTONOMOUS MOBILE ROBOT

Abstract: Source: US2007156286A A mobile robot is equipped with a range finder and a stereo vision system. The mobile robot is capable of autonomously navigating through urban terrain, generating a map based on data from the range finder and transmitting the map to the operator, as part of several reconnaissance operations selectable by the operator. The mobile robot employs a Hough transform technique to identify linear features in its environment, and then aligns itself with the identified linear features in order to navigate through the urban terrain; while at the same time, a scaled vector field histogram technique is applied to the combination of range finder and stereo vision data to detect and avoid obstacles the mobile robot encounters when navigating autonomously. Also, the missions performed by the mobile robot may include limitation parameters based on distance or time elapsed, to ensure completion of the autonomous operations.

Probable Assignee: IROBOT DEFENSE HOLDINGS INC

Earliest Publication Date: 20070705



3) Family number: 44926667 (US2010098316A)

DYNAMIC BIPLANE ROENTGEN STEREOPHOTOGRAMMETRIC ANALYSIS

Abstract: Source: US2010098316A A medical imaging system comprising an x-ray image detector mounted on a robotic arm and an x-ray generator mounted opposite the x-ray image detector. The robotic arm includes two pivots and a plurality of telescoping segments to adjust the height and angle of the x-ray image detector. In some embodiments, the medical imaging system includes a second x-ray image detector and a second x-ray generator and is capable of capturing biplane stereophotogrammetric images.

Probable Assignee: PAPAIOANNOU GEORGE

Earliest Publication Date: 20100422



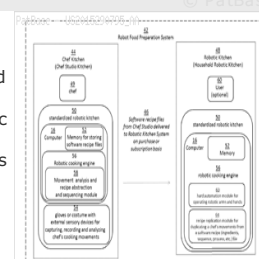
4) Family number: 60176686 (US2015290795A)

METHODS AND SYSTEMS FOR FOOD PREPARATION IN A ROBOTIC COOKING KITCHEN

Abstract: Source: US2015290795A The present disclosure is directed to methods, computer program products, and computer systems for food preparation. A robot to prepare a food dish by replacing the human chef's movements and actions. Monitoring a human chef is carried out in an instrumented application-specific setting, a standardized robotic kitchen in this instance, and involves using sensors and computers to watch, monitor, record and interpret the motions and actions of the human chef, in order to develop a robot-executable set of commands robust to variations and changes in the environment, capable of allowing a robotic or automated system in a robotic kitchen to prepare the same dish to the standards and quality as the dish prepared by the human chef.

Probable Assignee: MBL LTD

Earliest Publication Date: 20150827



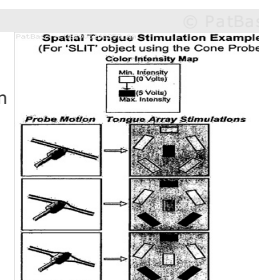
5) Family number: 31969343 (US2005240253A)

SYSTEMS AND METHODS FOR ALTERING VESTIBULAR BIOLOGY

Abstract: Source: US2005240253A The present invention relates to systems and methods for management of brain and body functions and sensory perception. For example, the present invention provides systems and methods of sensory substitution and sensory enhancement (augmentation) as well as motor control enhancement. The present invention also provides systems and methods of treating diseases and conditions, as well as providing enhanced physical and mental health and performance through sensory substitution, sensory enhancement, and related effects. In particular, the present invention provides systems and methods for altering vestibular biology to, among other things, treat diseases and conditions or enhance performance related to vestibular functions.

Probable Assignee: WICAB INC

Earliest Publication Date: 20050609



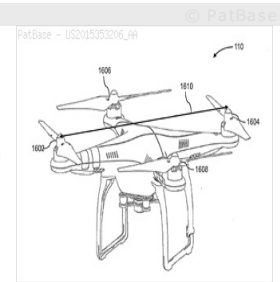
6) Family number: 59496797 (US2015353206A)

SYSTEMS AND METHODS FOR UAV DOCKING

Abstract: Source: US2015353206A Systems and methods are provided for docking an unmanned aerial vehicle (UAV) with a vehicle. The UAV may be able to distinguish a companion vehicle from other vehicles in the area and vice versa. The UAV may take off and/or land on the vehicle. The UAV may be used to capture images and stream the images live to a display within the vehicle. The vehicle may control the UAV. The UAV may be in communication with the companion vehicle while in flight.

Probable Assignee: SZ DJI TECHNOLOGY CO LTD

Earliest Publication Date: 20150616



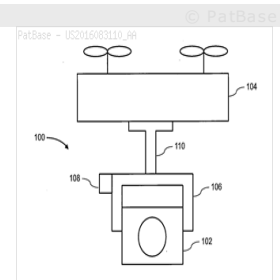
7) Family number: 60729285 (US2016083110A)

INTERCHANGEABLE MOUNTING PLATFORM

Abstract: Source: US2016083110A A platform for interchangeably mounting a payload to a base support is provided. In one aspect, the platform comprises: a support assembly configured to be releasably coupled to a payload via a first coupling and configured to control a spatial disposition of the payload; and a mounting assembly configured to be releasably coupled via a second coupling to a plurality of types of base supports selected from at least two of the following: an aerial vehicle, a handheld support, or a base adapter mounted onto a movable object.

Probable Assignee: SZ DJI TECHNOLOGY CO LTD

Earliest Publication Date: 20151105



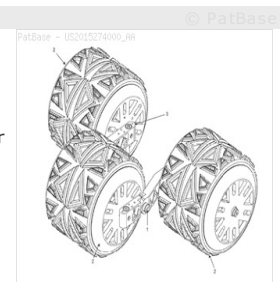
8) Family number: 60452360 (US2015274000A)

LOW GRAVITY ALL-SURFACE VEHICLE

Abstract: Source: US2015274000A Vehicles are disclosed which have a lower center of gravity than existing all-terrain, amphibious, and unmanned ground vehicles due to the location of propulsion units and other vehicle components inside the wheels of the vehicle. The vehicles can climb over large obstacles yet are also able to corner at high speeds. The vehicles can be configured for direct manual operation or operation by remote control, and can also be configured for a wide variety of missions.

Probable Assignee: PAHA DESIGNS LLC

Earliest Publication Date: 20151001



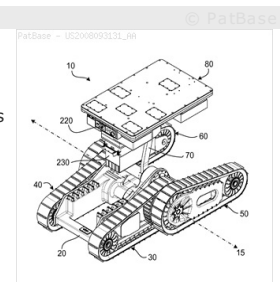
9) Family number: 41742572 (US2008093131A)

ROBOTIC VEHICLE

Abstract: Source: US2008093131A A robotic vehicle is disclosed, which is characterized by high mobility, adaptability, and the capability of being remotely controlled in hazardous environments. The robotic vehicle includes a chassis having front and rear ends and supported on right and left driven tracks. Right and left elongated flippers are disposed on corresponding sides of the chassis and operable to pivot. A linkage connects a payload deck, configured to support a removable functional payload, to the chassis. The linkage has a first end rotatably connected to the chassis at a first pivot, and a second end rotatably connected to the deck at a second pivot. Both of the first and second pivots include independently controllable pivot drivers operable to rotatably position their corresponding pivots to control both fore-aft position and pitch orientation of the payload deck with respect to the chassis.

Probable Assignee: IROBOT DEFENSE HOLDINGS INC

Earliest Publication Date: 20080424



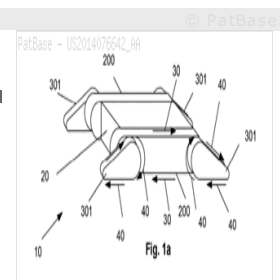
10) Family number: 55156976 (US2014076642A)

ROBOTIC SYSTEM AND METHODS OF USE

Abstract: Source: US2014076642A A robotic system that can have a body and four flippers is described. Any or all of the flippers can be rotated. The flippers can have self-cleaning tracks. The tracks can be driven or passive. The robotic system can be controlled by, and send audio and/or video to and/or from, a remote operator control module. The methods of using and making the robotic system are also described.

Probable Assignee: ROBOTEX INC

Earliest Publication Date: 20131114



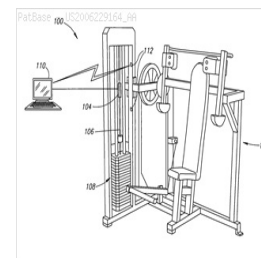
11) Family number: 32171719 (US2006229164A)

APPARATUSES FOR RETROFITTING EXERCISE EQUIPMENT AND METHODS FOR USING SAME

Abstract: Source: US2006229164A An exercise apparatus, comprising: a resistance element, operative to supply a resistance to movement by a user of the apparatus; and, an actuator module operatively connected to the resistance element and operative to vary a resistance perceived by the user without changing the resistance element.

Probable Assignee: MOTORIKA LTD

Earliest Publication Date: 20050818



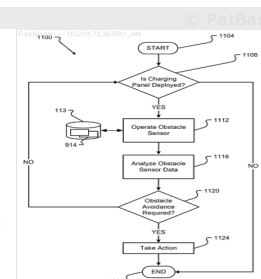
12) Family number: 65691330 (US2017136880A)

ELECTRIC VEHICLE CHARGING DEVICE OBSTACLE AVOIDANCE AND WARNING SYSTEM AND METHOD OF USE

Abstract: Source: US2017136880A Techniques for electric vehicle systems, and in particular to an electric vehicle charging device obstacle avoidance system and method of use. In one embodiment, a system for obstacle avoidance of a charging panel of an electrical vehicle is disclosed, the system comprising: a charging panel interconnected to the electric vehicle; an actuator interconnected to the charging panel, the actuator configured to position the charging panel; at least one sensor configured to sense an obstacle location measurement in a predicted travel path of the electric vehicle; and an obstacle avoidance controller that receives the obstacle location measurement and determines if an obstacle avoidance action is recommended.

Probable Assignee: NIO USA INC

Earliest Publication Date: 20170518



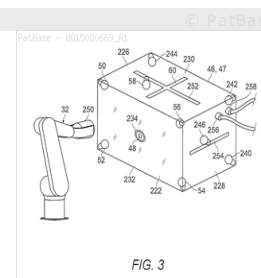
13) Family number: 59417178 (WO15080669A1)

FLEXIBLE VISION INSPECTOR

Abstract: A Flexible Vision Inspector (30, 200, 230) comprises a first type of illuminator (52, 54, 56, 58, 78, 240, 242, 244, 246, 248) for illuminating an object (80, 250), a second type of illuminator (52, 54, 56, 58, 78, 240, 242, 244, 246, 248) for projecting light onto the object (80, 82, 250), and a housing (46). The housing (46) encloses the first type of illuminator (52, 54, 56, 58, 78, 240, 242, 244, 246, 248), the second type of illuminator (52, 54, 56, 58, 78, 240, 242, 244, 246, 248) or both for preventing interference of illumination to the object (80, 82, 250) for machine vision inspection.

Probable Assignee: K ONE IND PTE LTD

Earliest Publication Date: 20150604



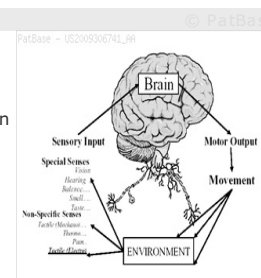
14) Family number: 41773742 (US2009306741A)

SYSTEMS AND METHODS FOR ALTERING BRAIN AND BODY FUNCTIONS AND FOR TREATING CONDITIONS AND DISEASES OF THE SAME

Abstract: Source: US2009306741A The present invention relates to systems and methods for management of brain and body functions and sensory perception. For example, the present invention provides systems and methods of sensory substitution and sensory enhancement (augmentation) as well as motor control enhancement. The present invention also provides systems and methods of treating diseases and conditions, as well as providing enhanced physical and mental health and performance through sensory substitution, sensory enhancement, and related effects.

Probable Assignee: WICAB INC

Earliest Publication Date: 20080502



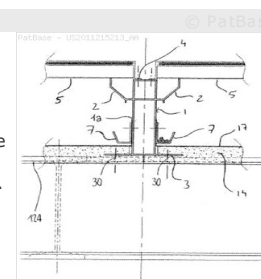
15) Family number: 44998954 (US2011215213A)

DEVICE FOR SUPPORTING PHOTOVOLTAIC CELL PANELS, SUPPORT SYSTEM AND INSTALLED ASSEMBLY

Abstract: Source: US2011215213A Device for supporting photovoltaic cell panels, which is formed from a section with a height between 5 and 25 cm, comprising a central portion (1), two gutters (2) symmetrical with respect to the support and running along the section over the entire length thereof, a retaining rail (3) at the base, fastening means (4), for fastening two photovoltaic cell panels (5), a thermal insulation, and a complementary sealing device.

Probable Assignee: KBFX LLC

Earliest Publication Date: 20100520



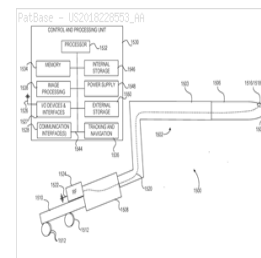
16) Family number: 65472036 (US2018228553A)

SENSORED SURGICAL TOOL AND SURGICAL INTRAOPERATIVE TRACKING AND IMAGING SYSTEM INCORPORATING SAME

Abstract: Source: US2018228553A Described are various embodiments of a sensed surgical tool, and surgical intraoperative tracking and imaging system incorporating same. In one embodiment, the surgical tool comprises a rigid elongate tool body having a substantially rigid tool tip to be displaced and tracked within the surgical cavity so to reproducibly locate the tool tip within the cavity. The tool further comprises one or more tool tip cameras and/or pressure sensors operatively disposed along the body at or proximal to the tool tip.

Probable Assignee: SYNAPTIVE MEDICAL BARBADOS INC

Earliest Publication Date: 20170414



17) Family number: 45171751 (US2010141928A)

CONTINUOUS INDEX OF REFRACTION COMPENSATION METHOD FOR MEASUREMENTS IN A MEDIUM

Abstract: Source: US2010141928A Described herein are devices and methods for making extremely accurate measurements in a medium by continuously measuring the index of refraction of the medium such as water or biological tissue. Also described herein is a device for constantly measuring the index of refraction, and using the index of refraction data to constantly calibrate the optical measurement device. In addition, a primary measurement device (a ladar) that is optimized for data collection in a volume backscattering medium such as water or biological tissue is described, along with data results from the lab.

Probable Assignee: EMBRY CARL

Earliest Publication Date: 20100610



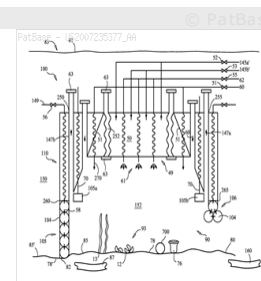
18) Family number: 39334732 (US2007235377A)

APPARATUS, SYSTEM AND METHOD FOR RECOVERY OF ARTIFACTS AND ERADICATION OF INVASIVE SPECIES IN AQUATIC ENVIRONMENTS

Abstract: Source: US2007235377A An apparatus, system and method for recovery of artifacts and eradication of invasive species in aquatic environments. The structure may comprise an elongate flexible bladder blanket divider having first and second ends. The structure may have an open bore vertical support operably coupled to the first and second ends. Each end extends into the open bore vertical support and rests on at least one apron bladder of an apron bladder bundle. The at least one apron bladder is contained in the open bore vertical support and at least one apron bladder is between the end of the vertical support and the bottom of the body of water. A method of using the apparatus, comprising providing an apparatus having variable volume first and second compartments separated by a flexible bladder blanket divider; and introducing agents through openings in the bladder to control the growth of or kill the invasive organisms.

Probable Assignee: KRYZAK THOMAS J

Earliest Publication Date: 20071011



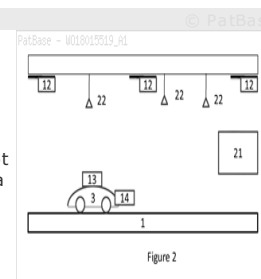
19) Family number: 68348650 (WO18015519A1)

ROBOT ASSISTED SURVEILLANCE OF LIVESTOCK

Abstract: A system is described for monitoring the welfare of livestock in a shed, said system comprising a plurality of sensors for measuring ambient conditions in the shed; a robot, adapted to move through the shed; said robot comprising at least two cameras, one of which is a thermal camera; a processing engine and a memory operatively associated with the processing engine, the processing engine being operatively associated with the robot and the plurality of sensors for receiving data recorded by the robot and the plurality of sensors, said recorded data comprising measurements of ambient conditions in the shed; and images from said at least two cameras.

Probable Assignee: FARM ROBOTICS AND AUTOMATION SL

Earliest Publication Date: 20180125



20) Family number: 30048314 (US2001027920A)

DEVICE AND METHOD FOR MANIPULATION OF AN ELECTROPHORESIS GEL

Abstract: Source: US2001027920A A method and device for transferring an electrophoresis gel from a cassette to a carrier includes a tray having a dimension to receive a cassette and a carrier device. The tray has a bottom wall with a surface with channels or recesses formed by projections to reduce contact of an electrophoresis gel with the bottom wall of the tray. The projections are typically pyramid-shaped members extending to a peak having a small surface area to prevent the electrophoresis gel from adhering to the bottom wall. The bottom wall also includes a recessed area to receive the carrier so that the gel can slide easily from the cassette to open jaws of the carrier. A retaining arm extends from a side wall of the tray to hold the jaws of the carrier in an open position while the gel is being positioned between the clamping surfaces of the jaws.

Probable Assignee: LARGE SCALE PROTEOMICS CORP

Earliest Publication Date: 20010823

