

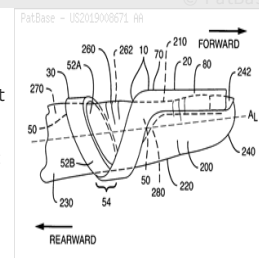
1) Family number: 65837612 (US2019008671 AA)

FINGER SUPPORTS AND GLOVES INCORPORATING THE SAME

Abstract: Source: US2019008671 AA A finger brace is configured for disposition about a lengthwise portion of a human finger between a brace proximal and distal ends. When installed for bracing, the proximal end is anchored at least partially about the outer side of the finger at a location behind the PIP joint. The distal end includes a shank configured for coextension along a lengthwise portion of the outer side of the finger between the PIP joint and the finger nail. Situated between and connecting the support proximal and distal ends is a PIP-joint support that at least partially encircles and supports the PIP joint. In various configurations, a finger brace is incorporated into each glove finger of a sports glove to define a larger overall finger support system. The shanks may be articulated to promote finger bending while preventing rearward hyperextension.

Probable Assignee: HISLOP NEIL SHAKA

Earliest Publication Date: 20170601



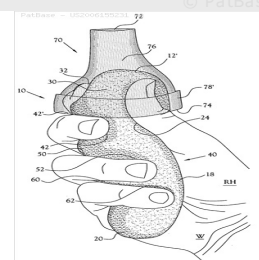
2) Family number: 33111179 (US2006155231 AA)

HAND HELD ORTHOSIS HAVING A FLEXIBLE ENCLOSURE AND METHOD OF UTILIZATION

Abstract: Source: US2006155231 AA A hand orthosis supporting a patient's thumb and fingers spaced apart and separated from contact with the palm of the hand, including an elongated body having a palm surface, a thumb portion, and a finger support portion. The elongated body includes a plurality of unequal cross-sectional areas spaced along the axial length between a distal end and a base end. A plurality of finger concavities are angled in helical orientation along the orthosis, including spaced apart concavities for each finger and the patient's thumb. Each finger and thumb concavity is angled non-perpendicular relative to the orthosis axial length to retain the fingers and thumb spaced apart, curved in a relaxed orientation, and apart from the palm of the hand during extended periods of time without impeding hand or wrist motion. A method of extended use for the hand orthosis is also disclosed.

Probable Assignee: BETCHER RUSSELL A

Earliest Publication Date: 20060713



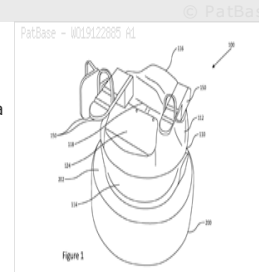
3) Family number: 68881400 (WO19122885 A1)

MOVEMENT TRAINING APPARATUS

Abstract: Source: WO19122885 A1 An apparatus for movement training, and more specifically, an apparatus for movement and function training of the hand and arm and particularly for use in rehabilitation of the hand following a stroke or other neurological or physical impairments. The invention extends to a corresponding system, method, and kit of parts.

Probable Assignee: NEUROFENIX LTD

Earliest Publication Date: 20190627



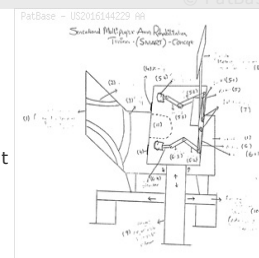
4) Family number: 58242233 (US2016144229 AA)

MODULAR MULTI-JOINT REHABILITATION TRAINING SYSTEM AND METHOD

Abstract: Source: US2016144229 AA The present invention relates to a device or apparatus for aiding in upper extremity rehabilitation treatment. The apparatus is a portable mobile rehabilitation device which has first and second arms attached to the central fulcrum of a tabletop platform which is supported by a height adjustable side pillar and base piece. Each arm has 3 links or segments attached at the ends by detachable and adjustable rotating support which are termed as joints. The distal end of each arm has an end-effector which is a hand hold module that is attached to the distal part of the subject arm. The proximal end of each arm is attached to the central fulcrum. The arms along with the modules will provide support for the patient to move the arm at different joints either by passive movement or active assist movement.

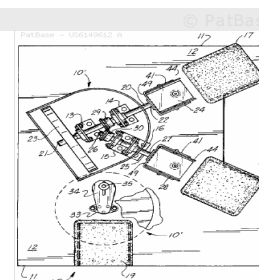
Probable Assignee: UNIV NEW YORK

Earliest Publication Date: 20150108



5) Family number: 12682355 (US6149612 A)

REHABILITATIVE APPARATUS FOR TREATING REFLEX SYMPATHETIC DYSTROPHY



Abstract: Source: US6149612 A The apparatus provides active and passive exercise to the hand, wrist and forearm of the patient. It has dual handles and an attached inertia apparatus such that both the affected arm and the non affected arm are subjected to the therapy. It is theorized that in the retraining of nerve, muscle and ligament/tendon function there is cross-training of right-left part of the systems and the healthy system can assist the afflicted part of the system in retraining. The apparatus addresses specifically the range of motion of the wrist, both for flexion-extension and pronation-supination. For pronation-supination, two conical handles, one for each hand is attached through an axis to a gear system connected to a flywheel. The gear/flywheel system allows for clockwise and counterclockwise rotations of the flywheel. The patient puts the system in motion by rotating the handles in either a clockwise or counterclockwise direction. The rotary (oscillating) motion is transferred to the flywheel through the gears. Adjustment of the starting position of the handle allows the patient to establish the starting point as the point where the patient's strength is maximal. The flywheel stores sufficient energy during the starting input of the patient to continue rotation after the patient's strength and range of motion decreases to the point that no further active rotation is produced by the patient. The inertia in the flywheel then continues the rotation of the patient's wrist, and effects a decrease in the tendon overload which normally occurs in normal physical therapy. An alternative embodiment includes a handle attachment for flexion and extension of the wrist with the orientation of the handle effectively at right angles to the flywheel gear drive of the prior embodiment, whereby the wrist is flexed and extended in causing oscillating rotary movement of the flywheel.

Probable Assignee: SCHNAPP MOACIR

Earliest Publication Date: 20001121

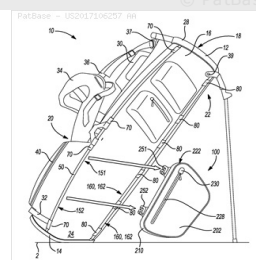
6) Family number: 65471702 (US2017106257 AA)

GOLF BAG ACCESSORY BAG

Abstract: Source: US2017106257 AA An accessory bag for a main bag is provided and may include a main body extending along a longitudinal axis between a first end and a second end. The main body may be movable between a collapsed state having the first end disposed proximate to the second end and an expanded state having the first end separated from the second end. The accessory bag may further include an attachment device associated with one of the first end and the second end that selectively attaches the main body to the main bag.

Probable Assignee: NIKE INC

Earliest Publication Date: 20170420



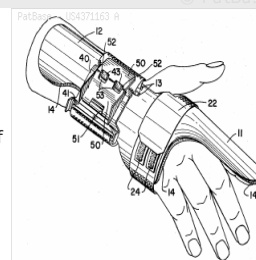
7) Family number: 3791424 (US4371163 A)

BOWLER'S WRIST AND FINGER CONTROL DEVICE

Abstract: Source: US4371163 A A bowler's wrist and forefinger support which comprises a rigid body adapted to extend dorsally from the forefinger to a location on the forearm above the wrist. The distal portion of the support extends over and partially encases the forefinger throughout its entire length. The proximal portion is cylindrically curved to fit generally around the back of the hand, wrist and forearm. The support restricts backward movement of the forefinger to an optimal angular range of 15 to 20 degrees forward with respect to the axis of the hand.

Probable Assignee: HECKMAN RICHARD W

Earliest Publication Date: 19830201



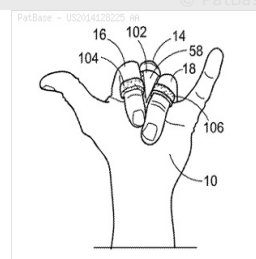
8) Family number: 56395621 (US2014128225 AA)

APPARATUS AND METHOD FOR MORE EFFECTIVE EXERCISE

Abstract: Source: US2014128225 AA An apparatus worn on the hands to prevent the formation of a conventional fist and instead promote the optimal posture/position for making a structurally superior fist-the A-Fist in the CoreFIST Training Method. The apparatus and method aligns the fingers to create Correct Bone Alignment through the fingers, hands, wrists, arms and shoulders enabling the user to throw harder, more powerful punches with less chance of injury. The Method for using such apparatus helps align the bones of the fingers and hands to engage in more effective punching/striking and walking/running exercise as well as many traditional calisthenics.

Probable Assignee: BOSU FITNESS LLC

Earliest Publication Date: 20140508



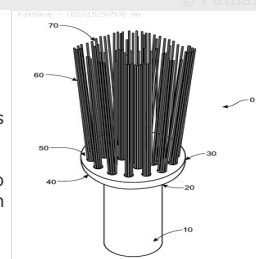
9) Family number: 60560196 (US2015290508 AA)

BASE-LESS, LOW-RESISTANCE GOLF MAT TEE

Abstract: Source: US2015290508 AA The subject invention discloses a base-less, low-resistance golf mat tee for supporting a golf ball when used in combination with a typical driving range golf mat. The base-less, low-resistance golf mat tee is comprised of a solid tubular shaft member with a distal end extending upwardly and terminating at its proximal end at the under-side surface of a flat, circular disc-shaped tee member of larger diameter that includes a multiplicity of bristles, foam fingers, or other low-resistance support means extending upwardly and attached or affixed to its top surface to provide angular support for the golf ball. The solid, tubular shaft member is received into the top side hole opening of a typical driving range golf mat and has a circumference that is fractionally smaller than that of the opening to allow for retention of the shaft member in the opening. The golf ball support structures extend upwardly above the top surface of the driving range mat and provide little to no resistance to the golf club when the golf ball is struck.

Probable Assignee: DORSEY ROBERT

Earliest Publication Date: 20151015



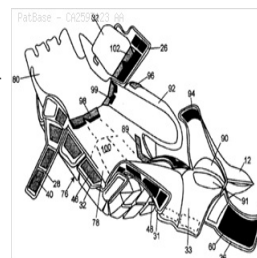
10) Family number: 42810306 (CA2597023 AA)

PROTECTIVE GLOVE FOR HOCKEY AND SIMILAR SPORTS

Abstract: Source: CA2597023 AA A protective glove comprising a glove body having a padded cuff, an exterior covered with padding, finger pockets and a thumb pad, a palm flap integrally connected to the glove body adjacent the opening of the finger pockets such that the interior surface of the palm flap can be positioned to face the interior surface of the glove body, the palm flap further including a thumb pad pocket adapted to receive the thumb pad of the glove body, and an adjacent thumb pocket for receiving the wearer's thumb, flexible releasable fasteners situated along the periphery of the palm flap and at corresponding locations on the glove body for releasably connecting the palm flap to the glove body such that the palm flap and the glove body define a hand cavity when they are connected to each other.

Probable Assignee: BAUTISTA ERROL

Earliest Publication Date: 20090103



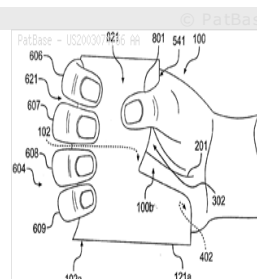
11) Family number: 28517398 (US2003074766 AA)

HANDLE/GRIP AND METHOD FOR DESIGNING THE LIKE

Abstract: Source: US2003074766 AA The present invention provides a design method and apparatus for a handle or grip providing a shape and structure that fills various regions of the hand except a region in an area over the underlying carpal tunnel. Such design method and apparatus provides for various supports and handles for use by a hand. In particular, the apparatus includes a generally boot-shaped body or portions thereof. The body or body portions include a radial section, an ulnar section and middle section. Furthermore the body has a distal (frontal) finger side, proximal (back) side, palmar side and a thumb side. The body also has radial and ulnar sides. These portions are shaped to engage the various corresponding regions of the inner surface of the hand. These sections and sides forming the body can be divided and used separately for individual applications of the present invention.

Probable Assignee: TILLIM M D STEPHEN L

Earliest Publication Date: 20030424



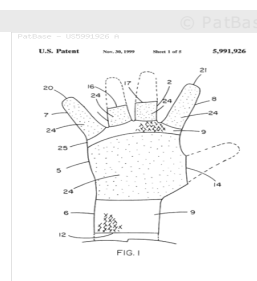
12) Family number: 11881571 (US5991926 A)

ELASTOMERIC GLOVE WITH SILICONE COATING

Abstract: Source: US5991926 A The invention is a one piece glove used as a sports aid to decrease slippage during grip, that is comprised of an elastomeric fabric component which fits precisely incorporating all the fingers of the hand; the wrist; and the thumb. The elastomeric fabric component is completely flexible not containing any rigid positional elements for the wrist or fingers. The palmar side of all the finger sleeves of the glove, as well as the palm of the glove have attached a silicone of prosthetic quality which is fused to the elastomeric fabric in such a fashion that all the external aspects of the finger sleeves facing the sports apparatus such as, but not limited to, a bowling ball, as well as the internal aspects facing the fingers are fused with the silicone. The surface of the palm of the glove is comprised of silicone and elastomeric fabric fused on the external aspect that contacts the bowling ball, and the internal aspect that contacts the palm itself. This construction of silicone fusion to elastomeric fabric greatly increases the ability of the bowler to grip the ball with less force because slippage is reduced. The adherence to the ball of the silicone plus its shock absorbing effect relative to the fingers allows greater "lift" and increased revolutions of the bowling ball upon ball release from the hand thus imparting greater energy applied to the pins upon impact.

Probable Assignee: LAKUSIEWICZ RONALD J

Earliest Publication Date: 19991130



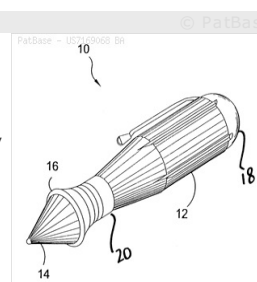
13) Family number: 34162219 (US7169068 BA)

RACQUET-STRING ALIGNMENT PICK

Abstract: Source: US7169068 BA A stringed-racquet pick including a handle body and a string-realignment member having a conical head with a circumferentially position ridge along the base forming a stop. Furthermore, the handle body tapers to an appropriately smaller cross sectional area on the handle side of the base ridge thereby serving as a finger support surface as the tool is being used. The present invention provides a device for fastening to an article depending from the handle body, such as a clip whereby the racquet pick can be clipped to a pocket. Additionally, the handle body can have a compartment including a device for providing access thereto.

Probable Assignee: MARANGONI STEVE

Earliest Publication Date: 20070130



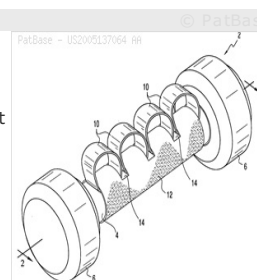
14) Family number: 32021747 (US2005137064 AA)

HAND WEIGHTS WITH FINGER SUPPORT

Abstract: Source: US2005137064 AA A hand weight comprises a handle; and a plurality of finger sleeves operably attached to the handle, each finger sleeve being designated for a specific finger of a user to support the hand weight from the user's fingers.

Probable Assignee: NOTHNAGLE STEPHEN

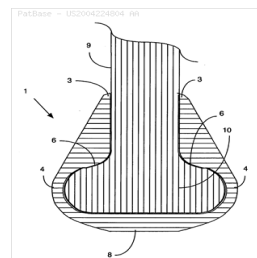
Earliest Publication Date: 20050623



Abstract: Source: US2004224804 AA A resilient elastic bat grip that attaches to baseball and softball bats to assist with hand placement, safety, injury prevention, wrist mobility, bat control and bat speed. The grip is stretched over and around the knob at the end of the bat handle. It can be temporarily or permanently attached. An upper ridge provides additional safety by increasing finger hold on the bat. A rounded outer surface ergonomically fits into the wedge of the thumb and crease of the palm increasing the surface area of contact. The elastic grip does not require all five fingers to hold the bat, and as a result, increases the maneuverability of the wrist which allows greater bat speed and whipping motion. The increased surface area of the elastic grip, the upper ridge and the rough textured coating provide greater friction and surface tension throughout the swing thereby increasing safety and control. A rounded base enables a single, double or triple finger drop for more bat speed and less wrist rigidity. This also allows added finger support for better control of the head of the bat during the swing as it passes through the power zone. This grip provides extra gripping surface tension and pliability for greater gripping force with less hand and finger contraction while enhancing comfort and providing injury protection. Because the grip is interposed between the batter's hand and the bat, it provides reverberation dampening to reduce injury risk. The grip can be made from a variety of resilient elastic materials, and can be made in a wide variety of colors or designs.

Probable Assignee: ACOSTA FRANK

Earliest Publication Date: 20041111



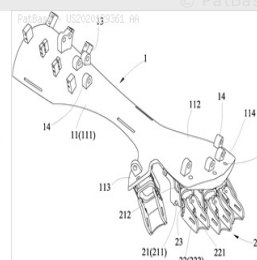
16) Family number: 78591813 (US2020129361 AA)

LOWER SUPPORT TYPE REHABILITATION DEVICE FOR FINGERS

Abstract: Source: US2020129361 AA A lower support type rehabilitation device for fingers is disclosed. It comprises a cover plate having a hand covering portion and a plurality of through holes; a plurality of finger supports disposed to the hand covering portion, each having a first finger base, a second finger base pivotally connected to the first finger base, two side arms and a beam disposed on the first finger base; and a traction device disposed on the hand covering portion and having a first processing module, a plurality of driving modules electrically connected to the first processing module, a plurality of pulling ropes connected to the plurality of driving modules and a plurality of pressure sensors electrically connected to the first processing module, wherein each of the plurality of pulling ropes passes through one of the plurality of through holes for fixing to the beam of the first finger base.

Probable Assignee: SOUTHERN TAIWAN UNIV OF SCIENCE AND TECHNOLOGY

Earliest Publication Date: 20200421



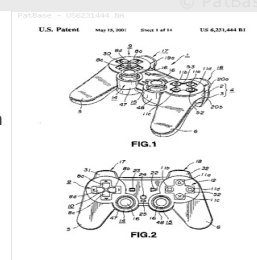
17) Family number: 30494915 (US6231444 BA)

OPERATING DEVICE FOR GAME MACHINE

Abstract: Source: US6231444 BA An operating device used in a game machine for playing a television game includes a main body portion of the operating device and first and second grip portions protruding from one side on respective end parts of the main body portion. A first operating unit is mounted on one end of the main body portion and a second operating unit is mounted on the opposite end of the main body portion. The first and second operating units are provided with a plurality of thrusting operators protruding from the upper surface of the main body portion and a plurality of signal input elements actuated by the thrusting operators. A third operating unit and a fourth operating unit are arranged facing each other on the proximal ends of the first and second grip portions. Each of the third and fourth operating units has a rotation member and a plurality of signal input devices actuated by the rotation member. When the first and second grip portions are gripped, the third and fourth operating units can be manipulated by a thumb finger of a hand gripping the first or second grip portion. The operating device further includes vibration imparting mechanism for imparting vibrations to the user's hands.

Probable Assignee: SONY COMPUTER ENTERTAINMENT INC

Earliest Publication Date: 19980423



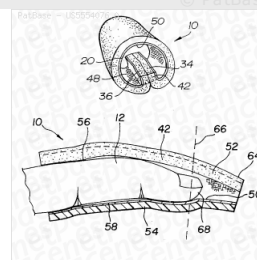
18) Family number: 12761544 (US5554076 A)

METHOD OF USING A BOWLER'S FINGER SLEEVE

Abstract: Source: US5554076 A A bowler's finger sleeve (10) is constructed of a high density neoprene sheet to form a curved tube which is placed on a bowler's finger (12) to aid the bowler in controlling a bowling ball (16). The sleeve is constructed using a method employed to construct a prior art orthopedic splint. An internal ridge (52) of the sleeve is placed at a dorsal surface (56) of the bowler's finger.

Probable Assignee: CLARK E NELSON

Earliest Publication Date: 19960910



19) Family number: 20678145 (US6305051 BA)

FINGER SUPPORTING STRUCTURE

Abstract: Source: US6305051 BA 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

