

EXERCISE DEVICE HAVING A DOOR ANCHOR

TECHNICAL FIELD

[0001] The present invention generally relates to exercise devices, and in particular to an exercise device having an inelastic strap that is easily configurable for anchoring to a structure.

BACKGROUND ART

[0002] Resistance exercise devices allow a user to exercise by providing a resistance to the movement of a user's arms, legs, or torso. Thus, for example, such devices allow a user to exercise by working one muscle against another, or by working against the weight of the user, by providing a resistance to the movement of a user's arms, legs, or torso. Resistance exercise devices typically include either elastic bands or inelastic straps.

[0003] Resistance exercise devices having elastic bands typically restrict the motion of a user's arms and/or legs, or the motion between the user and a support structure. Elastic exercise devices typically have limited usefulness that result from their resistance characteristics, which depend on the length and elasticity of the elastic band. Due to differences in height, weight, or strength between different users, it may not be possible to use a device for a variety of exercises or for different users to use the device for the same exercise. Elastic resistance exercise devices typically provide resistance that is inconsistent and which increases with increasing displacement, and tend to snap back when released.

[0004] Resistance exercise devices having inelastic straps are typically attachable to a structure, such as, for example, a door. While devices having inelastic straps do not have many of the problems of those having elastic bands, they are generally usable for a limited number of exercises.

[0005] There is a need to provide a resistance exercise device that is capable of being used for a complete workout for any user, including adjustments that allow a wide range of stances and exercises, and that provides resistance to the user's motion in a form that is useful for exercising.

DISCLOSURE OF INVENTION

[0006] The present invention overcomes the disadvantages of prior art by providing an exercise device that is easily configurable and mountable to a variety of structures. For example, certain embodiments described herein include a number of rings for connecting different exercise device components.

[0007] In certain embodiments, an exercise device for mounting between a door and a door jamb of a closed door is provided. The exercise device includes an anchor and a pair of adjustable length portions. The anchor has a first portion, an enlarged portion, and an elongate portion extending between the first portion and the enlarged portion. Each of the pair of adjustable length portions extends from a corresponding grip to the first portion. When the anchor is mounted to the closed door the elongated portion extends from a first side of the closed door to a second side of the closed door, the enlarged portion is not passable through the closed door, and the elongate portion extends away from the door by a distance.

[0008] In certain other embodiments, an adjustable, inelastic exercise device for mounting to a structure is provided. The device includes a first, second, and third elongated member. The first elongated member has a first length between a first grip and a first attachment position, and a first mechanism to adjust the first length. The second elongated member has a second length between a second grip and a second attachment position, and a second mechanism to adjust the second length. The third elongated member has a first end coupled to the first attachment position and the second attachment position, and a third length between the first end and a second end attachable to a door jamb. The third length is greater than 1 inch.

[0009] These features together with the various ancillary provisions and features which will become apparent to those skilled in the art from the following detailed description, are attained by the exercise device of the present invention, embodiments thereof being shown with reference to the accompanying drawings, by way of example only, wherein:

BRIEF DESCRIPTION OF DRAWINGS

[0010] FIG. 1 is a schematic front view of a first embodiment of an exercise device as anchored between a door and door jamb;

[0011] FIG. 2 is a partial schematic sectional view 2-2 of FIG. 1 showing the exercise device anchored between a door and door jamb;

[0012] FIG. 3 is illustrative of a user performing a high row exercise with the exercise embodiment of FIG. 1;

[0013] FIG. 4 is a perspective view of a second embodiment of an exercise device;

[0014] FIGS. 5 and 6 are views of a first embodiment of an anchor of the exercise device of FIG. 4, where FIG. 5 is a perspective view, and FIG. 6 is sectional view 6-6;

[0015] FIG. 7 is a perspective view showing details of the grip and the lengthening mechanism of the embodiment of FIG. 4;

[0016] FIG. 8 is a sectional view 8-8 of FIG. 7 showing the hand grip;

[0017] FIG. 9A is a perspective view showing details of the slack sleeves of the embodiment of FIG. 4;

[0018] FIG. 9B is a sectional view 9B-9B of FIG. 9A showing details of the buckle and attachment of the slack sleeves to the buckle;

[0019] FIG. 10 is a perspective view of a third embodiment of an exercise device; and

[0020] FIGS. 11A-11I illustrate poses of a user using an embodiment of an exercise device to perform exercises, where FIG. 11A is a reverse combination crunch, FIG. 11B is a single leg L-squat, FIG. 11C is a gymnast dip, FIG. 11D is a kneeling combination crunch, FIG. 11E is a lying leg curl, FIG. 11F is a hip lift, FIG. 11G is a front shoulder raise, FIG. 11H is a crunch, and FIG. 11I is a triceps extension.

[0021] Reference symbols are used in the Figures to indicate certain components, aspects or features shown therein, with reference symbols common to more than one Figure indicating like components, aspects or features shown therein.

MODE(S) FOR CARRYING OUT THE INVENTION

[0022] For purposes of contrasting various embodiments with the prior art, certain aspects and advantages of these embodiments are described where appropriate herein. Of course, it is to be understood that not necessarily all such aspects or advantages may be achieved in accordance with any particular embodiment. Modifications and variations can be made by one skilled in the art without departing from the spirit and scope of the invention including, but not limited to: the use of inelastic members, which are described herein as straps, that are round or have some other cross-sectional shape, and/or which are formed from two or more members joined together, as by stitching or with an adhesive; or the use of different mechanisms for adjusting the length of inelastic member that are known in the field including, but not limited to, buckles, hooks, or winding the inelastic member about a rigid element. Moreover, any one or more features of any embodiment may be combined with any one or more other features of any other embodiment, without departing from the scope of the invention.

[0023] Disclosed herein is an inelastic exercise device that is supported by, or that can be easily attached to, a supporting structure, and that allows a user to perform a large number of exercises by easily adjusting the length of the device and thereafter balancing the device as the user's weight is transferred to the device. Several of the features will now be illustrated with reference to FIGS. 1-3. FIG. 1 is a schematic front view of a first embodiment of exercise device **100** that is anchored at a point **A** between a door **D** and door jamb **J**. FIG. 2 is a partial sectional view **2-2** of FIG. 1 taken through door **D** and showing exercise device **100** in profile, and FIG. 3 is illustrative of a user **U** exercising with the exercise device of FIG. 1.

[0024] Exercise device **100** includes an anchor **110** and a pair of elongated members **122**, indicated as a first elongated member **122a** and a second elongated member **122b**, on either side of the anchor, as shown schematically in FIGS. 1 and 2. Each of the pair of elongated members **122** has a corresponding lengthening mechanism **135**, indicated as mechanism **135a** and **135b**. A pair of grips **123** is provided, with one positioned at each end **121** of each arm **122**, specifically first arm **122a** has a first grip **123a**, and second arm **122b** has a second grip **123b**. Each arm **122** is substantially inelastic and flexible with an adjustable length **L** between a corresponding one of the pair of grips **123** and anchor **110**. The length of each arm **122** is adjustable by use of the corresponding lengthening mechanisms **135**, as indicated by double arrows ΔL .

[0025] As used herein, the noun "grip" encompasses any device that is interlockable with part of the human body, that is it can be connected in such a way that a person can transfer a force to the grip, preferably a force equal to some or all of the person's weight, and the verb "grip," when used herein, refers to the action of interlocking the device and a body part. When used in an exercise device, a grip is attached to other elements that permit the force to be transferred to another object, including but not limited to a stationary support, a device that can store or release energy, such as an elastic cord or a spring, or another body part. Grips include devices that can be surrounded by a body part, for example flexible loop or a hook, or that a body part can surround, for example an elongated member that can fit within the grasp of the hand. In this context, a member that can be gripped, or is grippable, is one that can surround a body part or can be surrounded by a body part, and has a size and configuration that permits the transfer of forces from the user to the grip. A "hand grip" is grip that is sized for grasping by the hand, a "foot grip" is grip that is sized for grasping a foot, and a "finger grip" is grip that is sized for grasping by one or more fingers.

[0026] Anchor **110** provides a support for elongated member **120** that permits some amount of movement. Specifically, the interaction of anchor **110** and elongated member **120** allows the

elongated member to be positioned along on the anchor, and may also provide resistance to the movement of the elongated member along the anchor. Preferably the resistance is sufficient so that, under some circumstances, the support prevents movement of elongated member **120** along anchor **110**, even where there is some mis-match of forces on the ends of the elongated member. In this way exercise device **100** may be used for a variety of exercises, by changing the length of elongated member **120**, for example, and also provide an exercise device that can provide support for the user while exercising.

[0027] One type of support is referred to herein, without limitation, as a “frictional support.”

Anchors that provide frictional support include, but are not limited to, an element or portion of an element that can support elongated member **120** during exercising, and over which the elongated member can slide. Resistance to the movement of elongated member **120** over anchor **110** may be determined, in part, by the frictional resistance of the elongated member sliding over the anchor. In several embodiments of methods of using exercise device **100**, elongated member **120** slides along anchor **110** while a user positions herself. During exercising, a slight mis-match in the pulling forces on the grips is matched by static friction of the frictional support, and the grips do not move while exercising. That is, the static friction between elongated member **120** and anchor **110** generated by the frictional support is sufficient to permit exercises in which elongated member **120** does not slide through anchor **110** while exercising. Means that provide frictional support include elements or portions of elements that form part of or which are attached to an anchor and which can support an elongated member (that may, for example, include grips) and which can allow the elongated member to slide along the supporting anchor and provide frictional resistance to the motion of the elongated member during exercising.

[0028] Anchor **110** is used to provide a fixed anchor point for exercise device **100** and to support a user's weight as it is applied to elongated members **122** as indicated by an arrow **F** in FIG. 2 and as shown in FIG. 3. As shown in FIG. 2, anchor **110** is adapted for positioning exercise device **100** in a door and providing support to elongated members **122** by having an enlarged portion **111**, an elongated member **113** that can be strap or cord, and an attachment **115** for supporting the elongated members by the anchor. With enlarged portion **111** on the opposite side of door **D** from elongated members **122**, anchor **110** supports the weight of a user as grips **123** are pulled. The length of each of elongated member **122** can be easily adjusted through the each lengthening mechanism **135**. FIG. 2 shows arms **122** each having a length **L**.

[0029] In one embodiment, the length **L** is adjustable over a length that allows for a wide range of exercises. Thus, for example and without limitation, length **L** can be varied in length from

approximately 3 feet to 6 feet. In another embodiment, elongated member **122** has a width of approximately 1.5”.

[0030] When supported by a structure, such as door **D** (as shown, for example, in FIGS. 1-3) the inventive exercise device provides a pair of grips for a user to exercise against her weight according the user’s position relative to the device, and provides for easily adjusting the length of the device. As described below, the inventive device can be used to exercise in any one of a large number of orientations according the selected adjustable length and according to where and how the user stands relative to the exercise device. In general, a user sets the exercise device to a desired length, positions herself on the ground near the exercise device, supports a portion of her body weight from the exercise device by her hands or feet, and exercises by moving her body with her weight supported by the ground and the exercise device. Examples of support on the ground and exercise device include, but are not limited to, standing on one or both legs, lying on the stomach or the back, kneeling, or by having the hands on the ground, and having the exercise device support ones weight by the hands or feet, as appropriate.

[0031] In an alternative embodiment (not shown), elongated members **122** do not include lengthening mechanisms **135**. In this embodiment, elongated members **122** are thus substantially inelastic and have a fixed length **L** between the pair of grips **123**.

[0032] With reference to FIG. 3, a user **U** is shown in one of the many exercise positions, in particular a high row exercise, gripping the pair of grips **123** with the user’s hands and having the user’s feet placed a horizontal distance **X** from anchor point **A**. When anchored to a door, it is preferred that anchor point **A** is on the inwards side of the door (that is, that the door open away from user **U**) so that jamb **J** can support the user’s weight. The user **U** is shown leaning away from anchor point **A** and supporting a fraction of his or her weight through device **100**. It is apparent that user **U** can vary the amount of supported weight, and thus the resistance of exercise device **100**, by adjustment of his or her stance relative to anchor point **A** (distance **X**) and the length of arms **122** (length **L**). The user **U** of FIG. 3 performs a high row exercise by moving his body in a direction **E** towards and away from anchor point **A**. Note that other exercises are also possible with the user in this position by the user moving in other directions with the user’s weight supported by the ground and exercise device **100**.

[0033] Several embodiments will now be described with reference to the drawings. These embodiments are meant to be illustrative and not limiting to the scope of the claims. FIGS. 4, 5, 6, 7, 8, 9A, and 9B are various views of a second embodiment of an exercise device **400**. Referring first to FIG. 4, a perspective view of exercise device **400** is shown as including a first

embodiment of an anchor **410** and a pair of elongated members **422**. Exercise device **400**, anchor **410**, and elongated members **422** are generally similar to exercise device **100**, anchor **110**, and elongated members **122**, respectively, except further detailed below. Where possible, similar elements are identified with identical reference numerals in Figures 1-9.

[0034] Anchor **410** includes an inelastic, flexible elongated member **413** having an enlarged first end **411** that is wider than the strap, and a second end at attachment **415**. Anchor **410** supports each of a pair of elongated members **422**, indicated as elongated members **422a** and **422b** at attachment **415**. Each elongated members **422** has a respective end **421**, shown as end **421a** and **421b**, each forming a loop **425**, shown as loop **425a** and **425b**, to support one of a pair of grips **423**, shown as grip **423a** and **423b**. Each elongated member **422** also includes a pair of lengthening devices **435**, shown without limitation, as buckle **435a** and **435b**. In addition, each elongated member **422** includes a member **429**, shown as members **429a** and **429b**, that is sewn to strap **414** at attachment **415**.

[0035] FIGS. 4, 5 and 8 present several views of anchor **410**, where FIG. 5 is a perspective view of the anchor and FIG. 6 is a sectional view 6-6 of the anchor. As noted previously, anchor **410** includes an inelastic, flexible elongated member **413**. In one embodiment, the majority of lengths of anchor **410** and elongated members **422** are formed of materials that include, but are not limited, to straps of a webbing of a natural or synthetic material having strength sufficient to support the weight of a device user. Webbing materials include, but are not limited to, one or more of a nylon, polypropylene or other polymeric fibers. It is to be understood that a single length of flexible material can alternatively comprise two or more pieces that are stitched, glued, or otherwise attached to one another. In various embodiments, the length of elongated member **413** from first end **411** to attachment **415** is greater than 1 inch, greater than 2 inches, greater than 3 inches, greater than 4 inches, greater than 5 inches, greater than 6 inches, greater than 7 inches, greater than 8 inches, greater than 9 inches, greater than 10 inches, greater than 11 inches, greater than 12 inches, greater than 13 inches, greater than 14 inches, greater than 15 inches, greater than 16 inches, or greater than 17 inches. In certain other embodiments, the length of elongated member **413** from first end **411** to attachment **415** is from 1 to 18 inches, from 2 to 17 inches, from 3 to 16 inches, from 4 to 15 inches, from 5 to 14 inches, or from 6 to 13 inches. In another embodiment, the length of elongated member **413** from first end **411** to attachment **415** is approximately 12 inches.

[0036] Elongated member **413** has an enlarged first end **411** that is wider than the elongated member, and a second end **417** that is attached to arms **422a** and **422b**. As shown in FIG. 6,

elongated member 413 has an end 502 forming the core of first end 411. Since one of the intended uses of anchor 410 is to anchor exercise device 400 between a door and jamb, it is preferable that the end 411 include materials that are soft enough to prevent damage to a wood door or door frame and sturdy enough to support the weight of a user. One embodiment that is soft and sturdy is shown in FIG. 6. Specifically, elongated member end 502 is partially surrounded by a recessed enclosure 505 and a pillow 507 that covers the elongated member end and the enclosure. Elongated member end 502 can further be held within end 411 by gluing and stitching the elongated member end to enclosure 505 and pillow 507, and by closing the pillow with one or more stitches 509. Elongated member 413 passes into first end 411 through a slot 504 in enclosure 505 and through slot 501 in pillow 507. In one embodiment, first end 411 is approximately 3.5" by 2.5" and is oriented approximately perpendicular to elongated member 413. In another embodiment, enclosure 505 is formed of a high-density, closed cell foam, and that pillow 507 is formed from a felt, and includes stitches 503. Alternatively, a second strap or piece of another material could be sewn, glued or otherwise attached to the end of elongated member 413 to form end 502. In another alternative embodiment, enclosure 505 can include another rigid member, such as a metal or hard plastic plate, to increase the rigidity of elongated member end 411.

[0037] Elongated members 422 are shown in greater detail in FIGS. 7, 8, 9A, and 9B, where FIG. 7 is a perspective view of one of the pair of grips 421 and the corresponding one of the pair of buckles 435, FIG. 8 is a sectional view 8-8 of one of the pair of grips 421, and FIG. 9A is a perspective view showing details of one of the pair of buckles and the adjoining strap 429.

[0038] The details of one of the pair of ends 421, including strap 429 to grip 423, and including buckle 435 are shown in FIGS. 7, 9A and 9B. Buckle 435 is a cam buckle, the design and use of which are well known in the art. Buckle 435 is attached to strap 427, and thus the length of each of end 421 is not adjustable. Buckle 435 is also slidably accepts and grips strap 429, allowing for adjustment of the length L.

[0039] Buckle 435 has a frame 709, a first strap bar 705, a second strap bar 707, and a user movable cam 711. First strap bar 705 supports a loop of strap 427 that is preferably secured by stitches 703. Alternatively, strap 427 can be secured to bar 705 through a second member, such as another looped strap or a plastic or metal piece that loops about bar 705 and provides a location to attach strap 427. Strap 427 has an opposite end that is bound with stitches 701 to form loop 425 to secure grip 423, as described subsequently. Second strap bar 707 and cam 711 supports strap 429. It is to be understood that the use of stitches as described herein to fasten

strap portions can also be accomplished through the use of other methods of fastening, such as glue or by melting strap portions together.

[0040] Cam **711** is spring loaded such that it normally restrains a strap **429**, and that under the action of a user, such as by pushing or pulling the cam, the cam is moved to allow the strap to move. The distance between cam **711** and bar **707** is adjusted by the user and a spring within buckle **435** by pushing on cam **711**, allowing strap **429** to slide between cam **711** and bar **707**. Thus, each the length **L** can be adjusted by the user actuating cam **711** of buckle **435**.

[0041] Grip **423** is shown in greater detail in the sectional view of FIG. 8. Grip **423** has a generally tubular shape, with an outer cover **801** and an inner cylindrical tubular portion **803**. Cover **801** has a length and outer diameter to allow a hand to easily grab grip **423**, and is formed from a material that permits a user to hold it while exercising. In one embodiment, the material for cover **801** is a high-density foam. Portion **803** provides the strength of grip **423** and can be formed from a length and diameter of plastic or other rigid material to match the size of cover **801** and to provide space for a loop **425** to pass through the center of portion **803**. In one embodiment, portion **803** is formed from a rigid and light material, such as PVC tubing.

[0042] One of the pair of free ends **431** is shown in greater detail in FIG. 9A. Each end **431** is preferably folded back, and is held in place, for example by a stitch **901**, to form an easily manipulated end. Elongated member **420** also includes several sleeves, shown as sleeves **903**, **905a** and **905b** that twice surrounds strap **429** to prevent ends **431** from moving about. Specifically, sleeves **903** and **905** are placed between buckles **435**, ends **431** and strap **429**. Thus sleeves **903** and **905** restrain the portion of strap **429** from a buckle **435** to the corresponding end **431** from moving about as exercise device **420** is moved. As shown in FIG. 9A, sleeve **903** is affixed near end **431**, while sleeves **905** can be slid along the length of strap **429**. FIG. 9B is a sectional view **9B-9B** of FIG. 9A showing details of the cam buckle and attachment of sleeve **905b**. In particular, FIG. 9B shows a bar **907** that spans buckle **435** and a strap **909** that is attached both the bar and to sleeve **905b**. Strap **909** keeps sleeve **905b** from sliding too far down strap **429** during adjustment of the length of the exercise device. It is preferred that sleeves **905b** are elastic so that they can easily move and hold together the portions of strap **429**.

[0043] FIG. 10 is a perspective view of a third exercise device **1000** is shown as including a first embodiment of an anchor **1010** and a pair of elongated members **1022**. Exercise device **1000**, anchor **1010**, and elongated members **1022** are generally similar to exercise devices **100** and **400**, anchors **110** and **410**, and elongated members **122** and **422** respectively, except further detailed below. Specifically, exercise device **1000** is similar to exercise device **400**, and provides the

added advantage of having easily replaceable elongated members **1022**. Where possible, similar elements are identified with identical reference numerals in the Figures.

[0044] Each elongated member **1022** includes a buckle **1035**, shown as buckle **1035a** and **1035b**. As shown in detail with respect to buckle **1035a**, buckle **1035** includes a first ring **1031** and a second ring **1033** having a center bar **1032** and a tab **1036**. Strap **427** is attached to both ring **1031** and **1033**, and strap **429** passes through ring **1031**, around bar **1032**, and back through ring **1031**. Buckle **1035a** illustrates the buckle restraining straps **429** and **427**. When tab **1032** is pulled to separate rings **1031** and **1033**, as shown for buckle **1035b**, the length of elongated member **1022** may be changed. Each strap **429** also includes a reinforced hole **1003**, indicated as hole **1003a** and **1003b**.

[0045] Anchor **1010** includes inelastic, flexible elongated member **413**, enlarged first end **411**, a loop **1005**, and a ring **1001**. In one embodiment, ring **1001** is a gated ring, such as a carabineer, or a snap ring. Ring **1001** passes through holes **1003a** and **1003b**, thus supporting elongated members **1022a** and **1022b**, respectively. Holes **1003a** and **1003b** and ring **1001** form attachment **415**.

[0046] While exercise device **100**, and more specifically exercise device **400**, has been described with respect to a particular embodiment, there are many alternative embodiments. Thus, for example, the elongated members could be round instead of the straps illustrated in the figures. In addition, the grips illustrated on devices **100**, **400** and **1000** may be replaced with foot grips, finger grips, combination grips, or accessory grips, as described, for example in U.S. Patent Application Serial Number 11/557,050, filed December 6, 2006, incorporated herein by reference.

METHODS OF EXERCISING

[0047] The inventive exercise device allows for a wide range of exercises. Examples of the many exercises that are possible are presented in TABLE 1 for the inventive device placed over the top of a door. FIGS. 3 and 11 illustrate three of the many exercise positions. In each of these positions the user has positioned himself on the ground a desired horizontal distance **X** from anchor point **A** with a portion of his weight being supported by the exercise device. With his weight so supported, as shown in FIGS. 3 and 11, he moves his body in directions appropriate to the type of exercise to be performed, for example by moving his body toward or away from the wall or ground, by bending his arms or legs while supporting his weight by the exercise device, or performing other movements that exercise his muscles.

Basic Exercises	Intermediate	Advanced
<u>Pull functions</u>	<u>Pull functions</u>	<u>Pull/lateral functions</u>
Low row	One-arm low row	Lateral raise
High row	One-arm high row	Front shoulder raise
Pull-up	One-arm pull-up	Reverse-grip curl
High curl	One-arm high curl	Combination row/kickback
Low curl	One-arm low curl	Internal rotator cuff
Back fly	Lower chest/lat crunch	External rotator cuff
Wrist curl	Reverse-grip wrist curl	2-Way forearm flexors
<u>Core Strength</u>	<u>Core Strength</u>	<u>Core Strength</u>
Crunch	Kneeling combination crunch	Standing combination crunch
Reverse single leg raise	Reverse leg raise	Reverse leg raise w/ hip lift
Oblique crunch	V-sit-up	Reverse oblique raise
Reverse crunch	Hip lift	V-balance
Bicycle	Reverse bicycle	Reverse combination crunch
Back Bridge		
<u>Legs</u>	<u>Legs</u>	<u>Legs</u>
Squat	Lying hamstring pedal	Lying hamstring curl
Hip hinge	Tip-toe squat	Single-leg hip hinge
Squat lunge	Step-back lunge	Single leg L-squat
Sumo squat	Single leg squat	Diagonal Step-back lunge
Side-to-side lunge	Single calf raise	Crossover off-balance squat
Calf raise	Jumping Ski PT	
<u>Push functions</u>	<u>Push functions</u>	<u>Push functions</u>
Standard press	One-arm incline press	Triceps kickback
Chest fly	Low chest press (outside grip)	One-arm concentration fly
Shoulder press	Reverse Push-up	Reverse crunch/push-up
Overhead triceps extension	One-arm triceps extension	combo
Lat-Pullovers		One-arm shoulder press
		Gymnast dip

TABLE 1: Several Basic, Intermediate, and Advanced Over the Door Anchor Exercises

[0048] Specifically illustrated in FIGS. 3 and 11 are single poses of a user U performing a variety of exercises including a high row exercise (FIG. 3), a reverse combination crunch (FIG. 11A), a single leg L-squat (FIG. 11B), a gymnast dip (FIG. 11C), a kneeling combination crunch (FIG. 11D), a lying leg curl (FIG. 11E), a hip lift (FIG. 11F), a front shoulder raise (FIG. 11G), a crunch (FIG. 11H), and a triceps extension (FIG. 11I). It is apparent from FIGS. 3 and 11 that many different types of exercises are possible with the inventive exercise device according to the

length of the device, the positioning of the body, and how the handles are gripped. In addition, the inventive device can be used to perform one handed exercises.

[0100] Although the invention(s) presented herein have been disclosed in the context of certain preferred embodiments and examples, it will be understood by those skilled in the art that the invention(s) extend beyond the specifically disclosed embodiments to other alternative embodiments and/or uses of the invention(s) and obvious modifications and equivalents thereof. In addition, the invention(s) may include all of the different combinations embodied herein. Thus, it is intended that the scope of the invention(s) herein disclosed should not be limited by the particular embodiments described above, but should be determined only by a fair reading of the claims that follow.

[0049] Throughout this specification, the term "comprising" shall be synonymous with "including," "containing," or "characterized by," is inclusive or open-ended and does not exclude additional, unrecited elements or method steps. "Comprising" is a term of art which means that the named elements are essential, but other elements may be added and still form a construct within the scope of the statement.

CLAIMS

What is claimed is:

1. An exercise device for mounting between a door and a door jamb of a closed door, said exercise device comprising:
 - an anchor having a first portion, an enlarged portion, and an elongate portion that extends between said first portion and said enlarged portion, and
 - a pair of portions, where each of the pair of portions is inelastic and has a length that extends from a corresponding grip to an end, and where each of said ends is connected to said first portion,
 - where, when said anchor is mounted to the closed door:
 - said elongated portion extends from a first side of the closed door to a second side of the closed door,
 - said enlarged portion is not passable through the closed door, and
 - said first portion extends away from the second side of said door by a distance,
 - such that when a user pulls on either of the pair of grips, the length between the grip and the first portion does not change.
2. The exercise device of Claim 1, further including one or more connectors removably coupling at least one end of said pair of portions to said first portion.
3. The exercise device of Claim 2, where at least one of said one or more connectors is a loop.
4. The exercise device of Claim 3, where said loop is a gated ring.
5. The exercise device of Claim 3, where said loop is a snap ring.
6. The exercise device of Claim 2, where at least one of said one or more connectors is a hook.
7. The exercise device of Claim 1, where the distance is greater than 1 inch.
8. The exercise device of Claim 1, where the distance is greater than 2 inches.
9. The exercise device of Claim 1, where the distance is greater than 4 inches.
10. The exercise device of Claim 1, where the distance is greater than 6 inches.
11. The exercise device of Claim 1, where the distance is between 1 inch and 18 inches.

12. An adjustable, inelastic exercise device for mounting to a structure, said device comprising:

a first elongated member connected to a first attachment position and having a first length between a first grip and said first attachment position, and a first mechanism to adjust said first length;

a second elongated member connected to a second attachment position and having a second length between a second grip and said second attachment position, and a second mechanism to adjust said second length; and

a third elongated member having a first end coupled to said first attachment position and said second attachment position, and a third length between said first end and a second end attachable to a door jamb,

where the third length is greater than 1 inch.

13. The device of Claim 12, where said first attachment position and said second attachment position are sewn to said first end of said third elongated member.

14. The device of Claim 12, where said first end of said third elongated member includes a ring, where said attachment of said first elongated member is a first hole in said first elongated member, where said attachment of said second elongated member is a second hole in said second elongated member, where said ring passes through said first hole and said second hole.

15. The device of Claim 14, where said ring is a gated ring.

16. The device of Claim 12, where the third length is greater than 2 inches.

17. The device of Claim 12, where the third length is greater than 4 inches.

18. The device of Claim 12, where the third length is greater than 6 inches.

19. The device of Claim 12, where the third length is less than 18 inches.

20. The device of Claim 1, where each portion of said a pair of portions, is sewn to said first portion.

21. The device of Claim 2, where said one or more connectors is two or more connectors, and where said two or more connectors removably couple each end of said pair of portions to said first portion.

22. The device of Claim 1, where the length between said grip and said end of each of the pair of portions is independently adjustable.

23. The device of Claim 1, where the length between said anchor and each grip is adjustable.