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(54) UPPER AND LOWER BODY CYCLING EXERCISE DEVICE

(75) Inventors: Robert W. McBride, Springfield,

MO (US); Tyler M. Rogers, Springfield, MO (US); John R. Buse, Houston, MO (US); Lin Siz-Pin, Taichung (TW)

(73) Assignee:

STAMINA PRODUCTS, INC.,

Springfield, MO (US)

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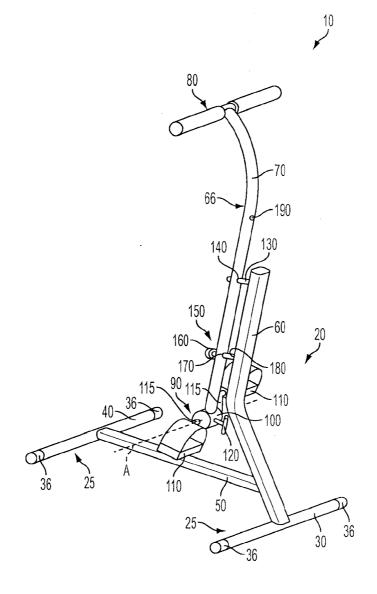
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(57) ABSTRACT

An exercise device includes a support frame configured to contact a support surface, and a cycler coupled to the frame. The cycler is configured to move with respect to the frame between a first position so as to be engaged by feet of a user of the exercise device, and a second position so as to be engaged by hands of the user. The exercise device also includes a lock configured to lock the cycler relative to the frame in the first and second positions. In an embodiment, the support frame is adjustable, and contains a seat, wherein adjusting the support frame moves the seat relative to the cycler.



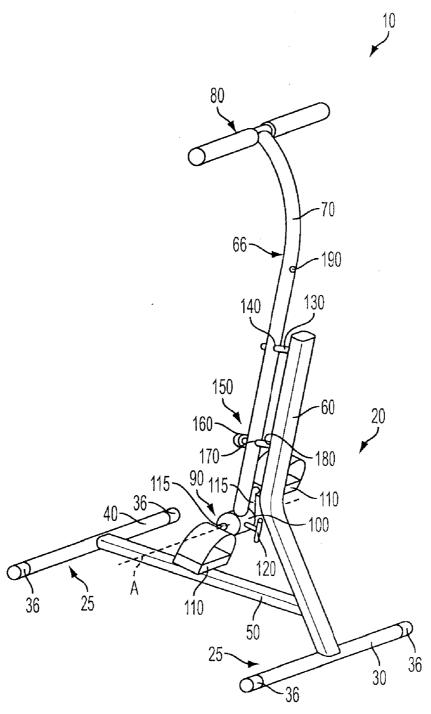


FIG. 1

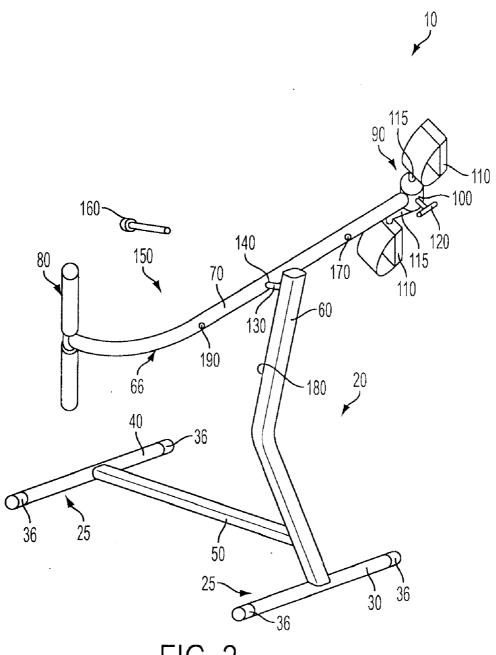


FIG. 2

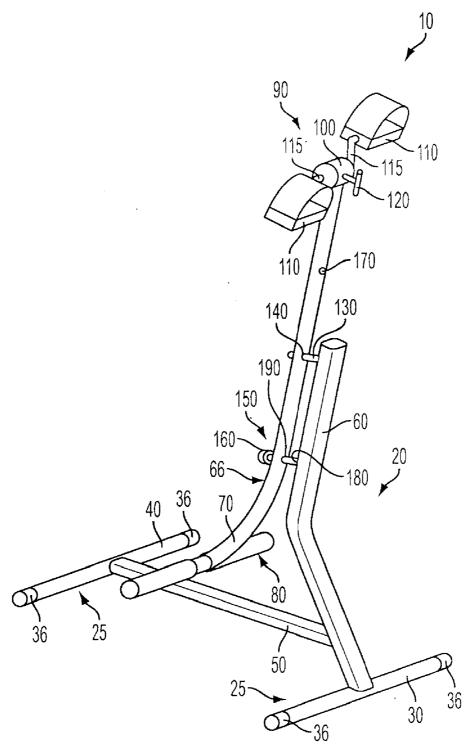


FIG. 3

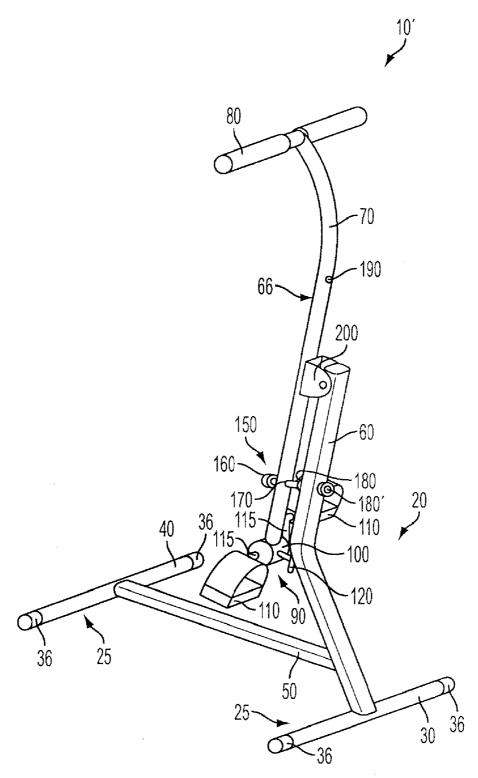
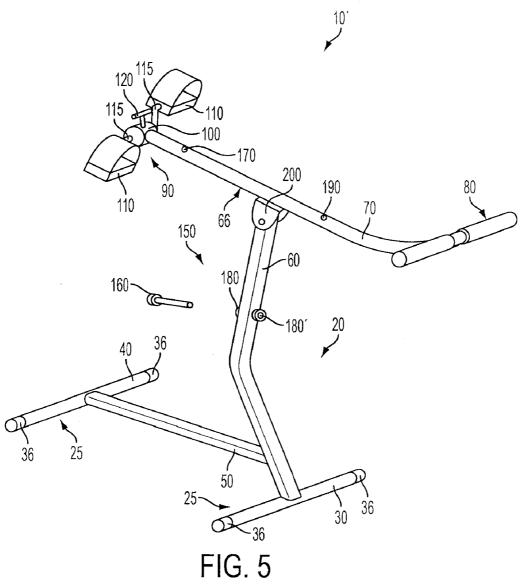


FIG. 4



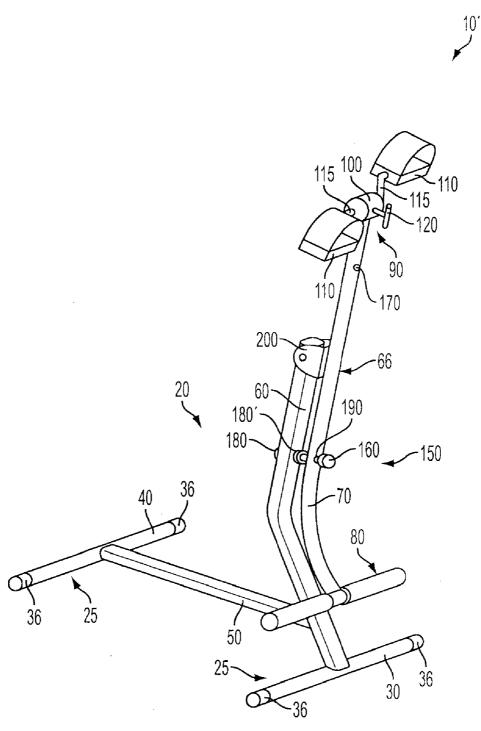


FIG. 6

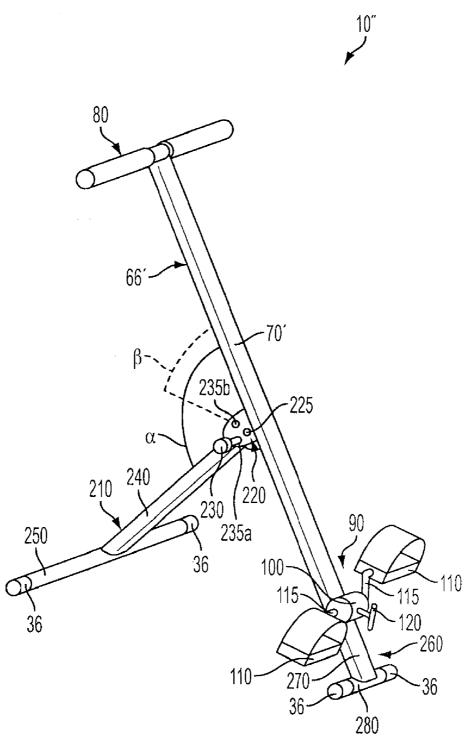


FIG. 7

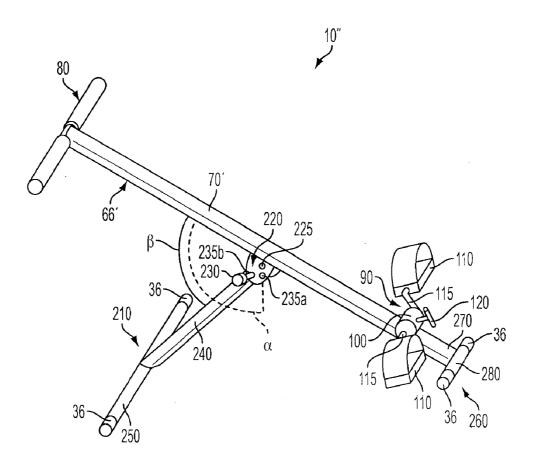


FIG. 8

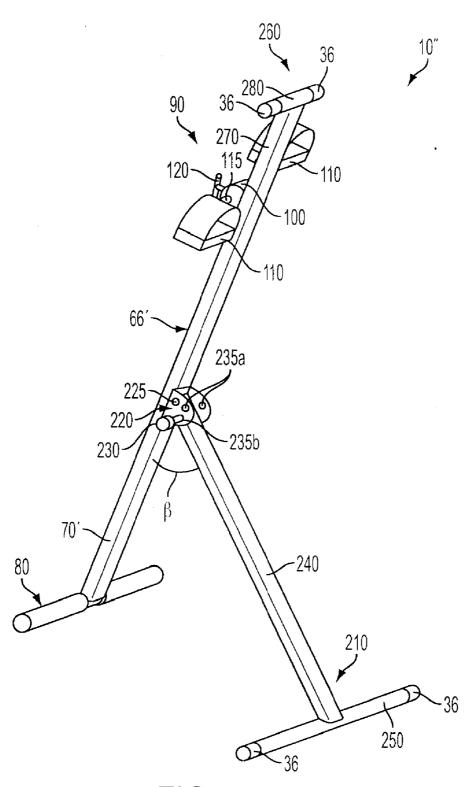


FIG. 9

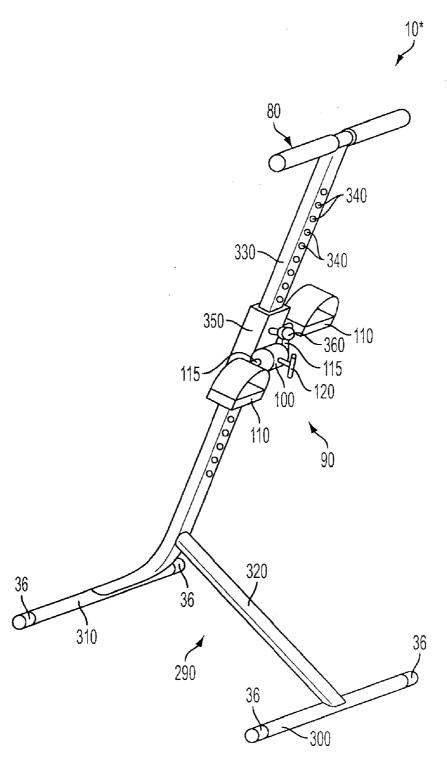


FIG. 10

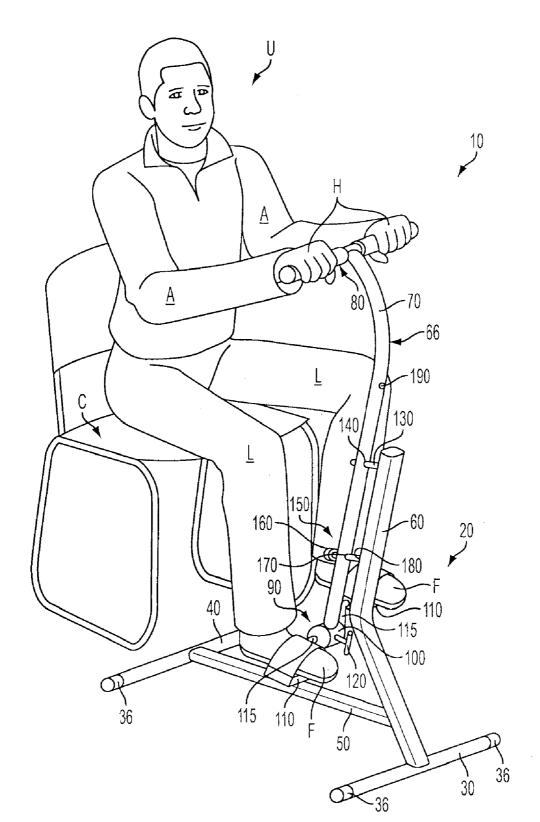


FIG. 11

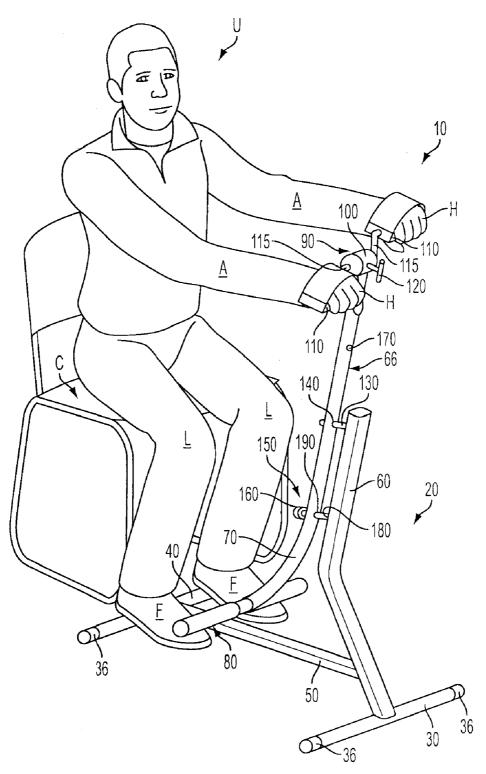
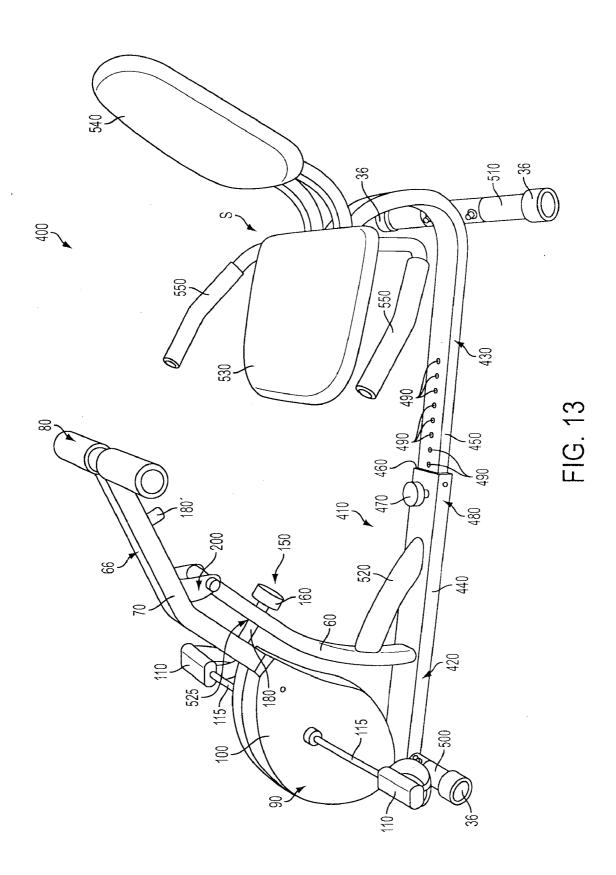


FIG. 12



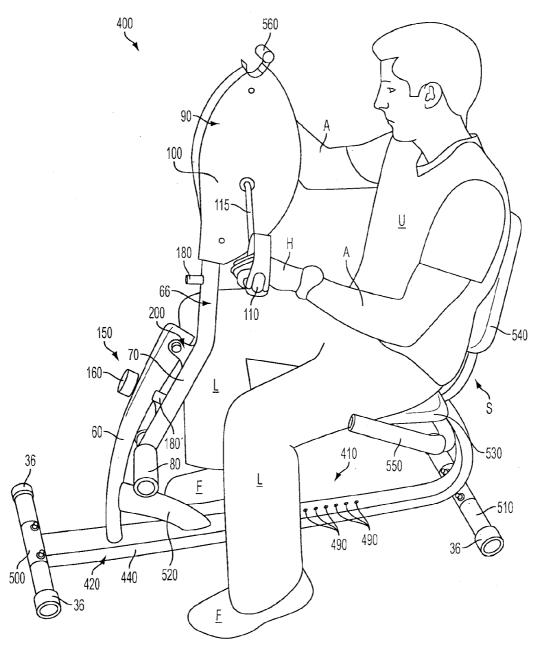
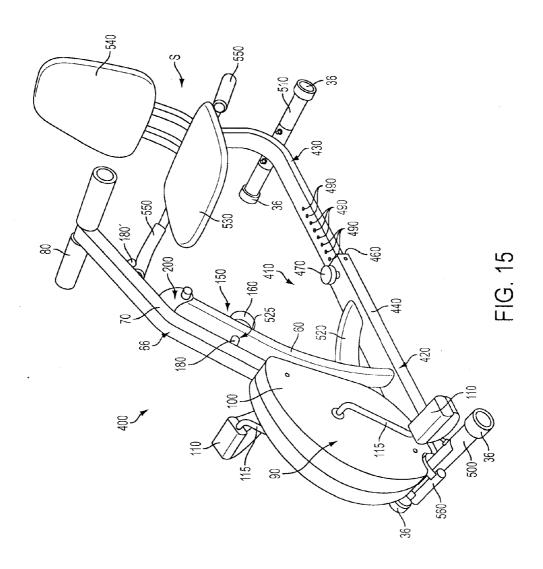


FIG. 14



UPPER AND LOWER BODY CYCLING EXERCISE DEVICE

[0001] The present disclosure is a continuation-in-part of U.S. patent application Ser. No. 13/051,723, filed Mar. 18, 2011, and incorporated herein in its entirety by reference.

FIELD

[0002] The present disclosure relates to the field of exercise equipment, and more in particular to an exercise device configured to provide a workout for the extremities of a user.

BACKGROUND

[0003] In order to promote good health and physical well being, many individuals engage in physical exercise. It is common for individuals who are engaging in physical activities to employ the use of exercise devices to assist in performing exercises. One type of exercise device is a cycling device, such as a stationary "bicycle" which provides pedals on a crank subject to a resistive force, such that a user may cyclically move their feet to turn the pedals against the resistive force, to provide the workout. Some cycling devices are designed to be portable, and to be placed on either a floor or a tabletop such that a user may engage the pedals with their legs or arms.

SUMMARY

[0004] According to an embodiment, an exercise device includes an adjustable support frame configured to contact a support surface. The exercise device also includes a seat mounted on the adjustable support frame, and a cycler coupled to the adjustable support frame. The cycler is constructed and arranged to be selectively positioned with respect to the adjustable support frame at a first position so as to be engaged by feet of a user of the exercise device, and a second position so as to be engaged by hands of the user. The cycler further includes a lock configured to lock the cycler relative to the frame in the first position or the second position. The adjustable support frame is configured to allow the user to move the seat to a plurality of positions relative to the cycler.

[0005] According to another embodiment, a method of exercising using an exercise device is provided. The exercise device has an adjustable support frame configured to contact a support surface, and a cycler coupled to the adjustable support frame. The cycler is configured to move with respect to the adjustable support frame to alternatively place the cycler in positions to be engaged by hands or feet of a user of the exercise device. The exercise device also includes a seat coupled to the adjustable support frame, whereby the seat is configured to allow a user to move the seat to a plurality of positions relative to the cycler. The method includes adjusting the adjustable support frame to move the seat relative to the cycler. The method also includes locking the cycler in a position to be engaged by a selected one of the hands or the feet of the user. The method further includes engaging the cycler by the selected one of the hands or feet, to exercise the selected one of the hands or feet.

[0006] According to another embodiment, an exercise device includes a support frame configured to contact a support surface, and a cycler coupled to the adjustable support frame. The cycler is constructed and arranged to be selec-

tively positioned with respect to the adjustable support frame at a first position so as to be engaged by feet of a user of the exercise device, and a second position so as to be engaged by hands of the user. The exercise device also includes a lock configured to lock the cycler relative to the frame in the first position or the second position. The cycler further comprises a frame engaging member configured to engage the support frame when the cycler is in the first position, and disengage from the support frame when the cycler is in the second position.

[0007] These and other objects, features, and characteristics of the present disclosure, as well as the methods of operation and functions of the related elements of structure and the combination of parts and economies of manufacture, will become more apparent upon consideration of the following description and the appended claims with reference to the accompanying drawings, all of which form a part of this specification, wherein like reference numerals designate corresponding parts in the various figures. In one embodiment, the structural components illustrated herein can be considered drawn to scale. It is to be expressly understood, however, that the drawings are for the purpose of illustration and description only and are not a limitation. In addition, it should be appreciated that structural features shown or described in any one embodiment herein can be used in other embodiments as well. It is to be expressly understood, however, that the drawings are for the purpose of illustration and description only. As used in the specification and in the claims, the singular form of "a", "an", and "the" include plural referents unless the context clearly dictates otherwise.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] Features of the disclosure are shown in the drawings, in which like reference numerals designate like elements. The drawings form part of this original disclosure in which:

[0009] FIG. 1 illustrates a side perspective view of an embodiment of an exercise device utilizing a movable frame pivotally mounted to move generally parallel to a support frame, wherein the movable frame is positioned to hold a cycler on the movable frame to facilitate leg exercises;

[0010] FIG. 2 illustrates a side perspective view of the exercise device according to FIG. 1, wherein the movable frame is in the process of being moved from being positioned to hold the cycler to facilitate leg exercises to being positioned to hold the cycler to facilitate arm exercises;

[0011] FIG. 3 illustrates a side perspective view of the exercise device according to FIGS. 1 and 2, wherein the movable frame is positioned to hold the cycler to facilitate arm exercises:

[0012] FIG. 4 illustrates a side perspective view of another embodiment of the exercise device utilizing a movable frame pivotally mounted to move generally across a support frame, wherein the movable frame is positioned to hold a cycler on the movable frame to facilitate leg exercises;

[0013] FIG. 5 illustrates a side perspective view of the exercise device according to FIG. 4, wherein the movable frame is in the process of being moved from being positioned to hold the cycler to facilitate leg exercises to being positioned to hold the cycler to facilitate arm exercises;

[0014] FIG. 6 illustrates a side perspective view of the exercise device according to FIGS. 4 and 5, wherein the movable frame is positioned to hold the cycler to facilitate arm exercises;

[0015] FIG. 7 illustrates a side perspective view of another embodiment of the exercise device utilizing a movable frame pivotally mounted to move generally across a support frame, wherein a portion of the movable frame in conjunction with the support frame supports the exercise device on a support surface, wherein the movable frame is positioned to hold a cycler on the movable frame to facilitate leg exercises;

[0016] FIG. 8 illustrates a side perspective view of the exercise device according to FIG. 7, wherein the movable frame is being locked into position to hold the cycler to facilitate arm exercises;

[0017] FIG. 9 illustrates a side perspective view of the exercise device according to FIGS. 7 and 8, wherein the movable frame is positioned to hold the cycler to facilitate arm exercises;

[0018] FIG. 10 illustrates a side perspective view of an embodiment of an exercise device utilizing a movable frame slidably mounted on a support frame, wherein the movable frame is movable between a position to facilitate arm exercises and a position to facilitate leg exercises;

[0019] FIG. 11 illustrates a side perspective view of the embodiment of FIGS. 1-3, wherein a user seated on a chair is engaging the exercise device as it is in a position to facilitate leg exercises;

[0020] FIG. 12 illustrates a side perspective view of the embodiment of FIGS. 1-3, wherein a user seated on a chair is engaging the exercise device as it is in a position to facilitate arm exercises.

[0021] FIG. 13 illustrates a side perspective view of another embodiment of the exercise device, having an adjustable support frame configured to support a seat, as well as support a cycler mounted on a movable frame, wherein the adjustable support frame is configured to move the seat relative to the cycler, the cycler being depicted in a first position to facilitate leg exercises;

[0022] FIG. 14 illustrates a side perspective view of the embodiment of FIG. 13, wherein the cycler is depicted in a second position to facilitate arm exercises, and depicting a user seated on the seat engaging the cycler with his hands; and [0023] FIG. 15 illustrates another side perspective view of the embodiment of FIG. 13, depicting the engagement of a frame-engaging member of the cycler.

DETAILED DESCRIPTION OF THE ILLUSTRATED EMBODIMENTS

[0024] FIG. 1 shows a perspective view of an embodiment of an exercise device 10. The exercise device 10 includes a support frame 20 that is configured to contact a support surface (i.e. a ground support surface, such as a floor). In some embodiments, the support frame 20 may be a single piece, while in other embodiments the support frame 20 may comprise separate pieces that may be assembled together. In the illustrated embodiment, the support frame 20 comprises a base 25. In one embodiment the base 25 includes a first ground support 30 and a second ground support 40. An upper portion of the support frame 20 may comprise an upright member 60. As shown, the connector bar 50 may be configured to interconnect the first ground support 30, the second ground support 40 and the upright member 60 in a manner such that the upright member 60 is supported off the support surface to a desired elevation above the first ground support 30 and the second ground support 40. The connector bar 50 may be connected between the ground supports 30 and 40, or may be connected between the ground support 40 and the upright member 60, which in turn is connected to the ground support 30. In another embodiment, the connector bar 50 is connected to all three of these members.

[0025] The support frame 20 may be made out of any suitable material or combination of materials. For example, the first ground support 30, the second ground support 40, the connector bar 50, and the upright member 60 may selectively be made of metal, wood, hard plastic, composite materials (such as epoxy coated carbon fiber material), or other material having sufficient durability to permit exercises while maintaining structural stability of the exercise device 10. In the illustrated embodiment, each of the first ground support 30, the second ground support 40, the connector bar 50, and the upright member 60 are made of hollow metal tubes, having connecting apertures therein to receive connecting fasteners, such as screws, bolts, or other connecting members. Although in some embodiments the pieces and members are connected by removable fasteners such that the pieces and members are detachable for ease of packaging or other space-saving storage, in other embodiments the unit may be solid, or the pieces or members may be permanently fastened to one another, through welding, one-way fasteners, or so on. Although the use of shaped tubes is desirable due to their structural strength and ease of manufacture, other configurations of the pieces and members may be used to form the pieces and members of the exercise device 10. Furthermore, although in some embodiments various members such as ground supports 30 and 40, and a movable frame (described below) have a curved or circular cross section, while other members such as connector bar 50 and upright member 60 have a rectangular cross section, other combinations of different shaped parts can be used.

[0026] Each of the first ground support 30 and the second ground support 40 are configured to support the upright member 60 at an elevation above the support surface for the exercise device 10. In the illustrated embodiment, the first ground support 30 and the second ground support 40 are generally oriented transverse to the connector bar 50, with the upright member 60 supported by the connector bar 50 generally centered above and between the first ground support 30 and the second ground support 40. In an embodiment, each of the first ground support 30 and the second ground support 40 may include end-caps, foot-pads 36, or other materials that may prevent scratching of the support surface, or increase friction on the support surface to prevent shifting or sliding of the exercise device 10 while performing the exercise operation. In an embodiment, the end caps or foot pads 36 may comprise rubber, felt, cloth, plastic, or any other material. In an embodiment, such material may be used to cover hollow openings at the ends of the support frame 20, such as at the non-connected ends of the first ground support 30, the second ground support 40, and the upright member 60.

[0027] As shown in FIG. 1, an exercise assembly 66 is operatively connected to the support frame 20. The exercise assembly 66 includes a movable frame 70, which is coupled to the upright member 60, and configured to be selectively movable with respect to the support frame 20. The mechanism of such movement may vary across embodiments, as those described in greater detail below. In some embodiments, the exercise device 10 may include stationary appendage supports 80, which may be engaged by the hands or feet of a user of the exercise device 10 during some exercises, or may be used to provide a surface to grasp when moving the exercise device 10. In the illustrated embodiment, the station-

ary appendage supports 80 are provided on a movable frame 70. The stationary appendage supports 80 may be of any appropriate construction or configuration, including in some embodiments, being formed from, containing, or being wrapped in a generally soft or otherwise padded material, to facilitate user comfort. In an embodiment, the stationary appendage supports 80 may be coated with an ergonomic material to enhance the ability of the stationary appendage supports 80 to engage a user's hand. Examples of such an ergonomic material include a high friction material for enhanced grip and/or a spongy material to provide for a padded grip. In some embodiments, the stationary appendage supports 80 may include finger grooves, such that a user may wrap his or her fingers around the stationary appendage supports 80, to provide a stronger grip when the stationary appendage supports 80 are engaged by the hands of the user. In some embodiments, the stationary appendage supports 80 comprise an elongated bar, and in one embodiment that bar may be arranged generally perpendicular to the movable frame 70. In some embodiments, the stationary appendage supports 80 may be shaped to extend away from and then generally in line with the movable frame 70, so that a user of the exercise device 10 may alternatively grasp the stationary appendage supports 80 in either a horizontal or vertical orientation. In the illustrated embodiment, the movable frame 70 is an elongated member, whereby a first end is coupled to or otherwise contains the stationary appendage supports 80. As with other elements of the exercise device 10, the stationary appendage supports 80 may in some embodiments be removable from the exercise device 10, and in other embodiments be a non-removable part of the exercise device 10.

[0028] In the illustrated embodiment, a second end of the movable frame 70 is coupled to or otherwise contains a cycler 90. The cycler 90 may be any appropriate cycling device, including, for example, comprising a crankset 100 coupled to a pair of pedals 110. In an embodiment, the crankset 100 has a rotational axis A, about which the pair of pedals 110 rotate. The pair of pedals 110 may be assembled into the cycler 90 by any appropriate mechanism, including, for example, being threadedly fastened onto the crankset 100, being bolted or clipped onto the crankset 100, or so on. As shown, the pedals 110 may be offset from the rotational axis A by a pair of crank arms 115, such that the pedals 110 have their own associated axes spaced from rotational axis A, each of which rotate about the rotational axis A as the cycler 90 is cycled. In an embodiment, each pedal 110 may also rotate about their own associated axes, so that a user of the exercise device 10 may angle his or her arms or feet with respect to the cycler 90 when cycling the cycler 90, as described in greater detail below.

[0029] The cycler 90 may be configured to have an intrinsic resistance to being cycled, which may be generated in any appropriate fashion. For example, in some embodiments, the crankset 100 may include therein ball bearing, fluid, magnetic, mechanical or other resistance generating elements. In an embodiment, the cycler 90 may include a variable resistance enhancer configured to increase an amount of force required to cycle the cycler 90. The resistance enhancer may be of any suitable construction or configuration, including in some embodiments being configured to increase friction against the cycler 90. For example, in the illustrated embodiment, a hand screw 120 is configured to be manually screwed into or out of the cycler 90, wherein a head of the hand screw 120 increases friction within the crankset 100, such as by contacting and pressing against the crankset 100. In some

embodiments, the resistance enhancer may comprise a friction belt and/or flywheel arrangement. In other embodiments, other resistance enhancers may be utilized, including but not limited to fluid, electrical, magnetic, mechanical or other mechanisms configured to vary the resistance against rotation of the cycler 90.

[0030] As indicated above, the movement of the movable frame 70 may vary across embodiments. Such movement may generally be configured to reposition the cycler 90 from a first position that facilitates engagement by feet of a user of the exercise device 10, to a second position that facilitates engagement by hands of a user of the exercise device 10. In the illustrated embodiment of FIG. 1, the movable frame 70 is coupled to an upper portion of the upright member 60 by a pivot pin 130. As shown, the pivot pin 130 may extend from the upright member 60, through a pivot receptacle 140 in the movable frame 70. In another embodiment, the pivot pin 130 may extend from the movable frame 70, and be received by a pivot receptacle in the upright member 60. In an embodiment, the pivot pin 130 may be configured to receive a fastener, such as a bolt or a screw, to prevent detachment of the movable frame 70 from the pivot pin 130. In some embodiments, the fastener may be removable, so that the movable frame 70 may be selectively removed from the support frame 20, such as for ease of packaging or for storage, for example. In an embodiment, the movable frame 70 pivots around (or with) the pivot pin 130, such that the movable frame 70 is configured for rotational motion in a plane generally parallel to the upright member 60. In an embodiment, the pivot pin 130 may couple the movable frame 70 to the support frame 20 near the center of the movable frame 70 and near the top of the upright member 60, high enough away from the support surface such that the movable frame 70, the stationary appendage supports 80, and the cycler 90 do not collide with the support surface, or other elements of the support frame 20, during the rotational motion. In some embodiments, the pivot pin 130 may couple to the upright member 60 at a plurality of heights above the support surface (i.e. there are a plurality of pivot receptacles in the upright member 60), such that the height of the exercise assembly 66 may be raised or lowered with respect to the support frame 20 on the support surface.

[0031] To prevent unwanted movement of the cycler 90 with respect to the support frame 20 during use of the exercise device 10, a lock 150 is provided to lock the cycler 90 relative to the support frame 10. In the illustrated embodiment, wherein the cycler 90 is supported on the movable frame 70, the lock 150 is configured to prevent movement of the movable frame 70 with respect to the support frame 20. The lock 150 may be of any suitable construction or configuration. In an embodiment, the lock 150 comprises a threaded fastener 160 configured to pass through at least a portion of both the movable frame 70 and the support frame 20. In the illustrated embodiment, a first lock aperture 170, associated with the cycler 90 being in the first position so as to be engageable by the feet of the user, is provided in the movable frame 70. The threaded fastener 160 may be configured to pass through the first lock aperture 170, and be received in a lock receiver 180 in the upright member 60, such that the movable frame 70 is tightened and secured to the upright member 60, locking the cycler 90 in the first position. The threaded fastener 160 may comprise a user-graspable head, configured for easy removal to unlock the cycler 90, or insertion to lock the cycler 90. As shown in the illustrated embodiment, a second lock aperture 190 may also be provided on the movable frame 70, positioned to allow locking the cycler 90 in the second position, so as to be engageable by the hands of the user, as described in greater detail below. In embodiments where there are a plurality of pivot receptacles in the upright member 60, there may likewise be a plurality of first lock apertures 170 and second lock apertures 190, so that the movable frame 70 may be locked and secured to the upright member 60 regardless of which pivot receptacle is receiving the pivot pin 130.

[0032] In other embodiments, the lock 150 may be of any other suitable configuration to prevent movement of the cycler 90 relative to the support frame 20. For example, in an embodiment a user-graspable pin, which may include one or more spring biased detents therein, may be provided instead of the threaded fastener 160, to allow for a quicker release and re-engagement of the lock 150 when moving the cycler 90 between the first and second positions. In an embodiment, a lock aperture may be provided in the support frame 20, while a pair of lock receivers 180 are provided in the movable frame 70, such that the threaded fastener 160, the user-graspable pin, or any other locking member may be configured to pass through a portion of the support frame 20, and be received in the movable frame 70. In other embodiments, the lock 150 may comprise a latch configured to interfere with the pivoting or other movement of the movable frame 70 with respect to the support frame 20. In some such embodiments, the latch may be a hook and eye latch, with the hook and eye on different ones of the movable frame 70 and the support frame 20. In some embodiments, the lock 150 may comprise a hinged or pivotable fork latch coupled to either the support frame 20 or the movable frame 70, and configured to be movable into and out of the plane of movement for the movable frame 70, such that the fork latch surrounds either side of the other of the support frame 20 or the movable frame 70, to prevent movement of the movable frame 70 with respect to the support frame 20. In some embodiments, the user-graspable pin may be mounted to the support frame 20, and may be spring-loaded into an engagement position with a lock receiver 180 in the movable frame 70. In other embodiments, a pair of spring-loaded user graspable pins may be mounted to the movable frame 70, such that one of them is biased into an engagement position with a lock receiver 180 provided on the support frame 20. In yet other embodiments, a single springloaded user graspable pin may be mounted to the movable frame 70, where the upright member 60 extends above the pivot pin 130 and contains lock receivers 180 on either side, such that the spring loaded user-graspable pin on the movable frame 70 may engage a different lock receiver 180 on the upright member 60 that corresponds with the cycler 90 being in either the first or second position.

[0033] As indicated above, the mechanism to reposition the cycler 90 between the first position for engagement by the feet and the second position for engagement by the hands may vary across embodiments. In the embodiment of FIG. 1, where the exercise device 10 contains the pivot pin 130, and the movable frame 70 is configured to pivot in a plane generally parallel to the upright member 60, the cycler 90 is shown in the first position. Also shown is that the lock 150 is engaged by securing the threaded fastener 160 through the movable frame 70, into the upright member 60. In an embodiment, the support frame 20 and/or the movable frame 70 may be configured such that in the first position seen in FIG. 1, the stationary appendage supports 80 are at an appropriate height above the support surface to be engaged by the hands of a user who is sitting in a chair adjacent to the exercise device 10,

while the cycler 90 is at an appropriate height above the support surface to be engaged by and be repeatedly cycled by the user in the chair, as described in greater detail below. In an embodiment, the upright member 60 and the movable frame 70 may be angled away from perpendicular (i.e. slightly towards the support surface), so as to provide clearance for the user's knees away from the stationary appendage supports 80 when the user is operating the cycler 90 with their feet when sitting in the chair.

[0034] The view of FIG. 2 shows that after disengaging the lock 150 by removing the threaded fastener 160, the movable frame 70 is free to pivot about the pivot pin 130, which in the illustrated embodiment, is generally in a plane that is parallel to the upright member 60. As shown, in rotating the movable frame 70, the stationary appendage supports 80 move from distal to the support surface, to proximal to the support surface. Likewise, the cycler 90 moves from proximal to the support surface to distal to the support surface. FIG. 3 depicts the exercise device 10 with the cycler 90 in the second position, configured to be engaged by the hands of the user. In an embodiment, the height of the cycler 90 in the second position may be approximately that of the stationary appendage supports 80 when the cycler 90 is in the first position, such that the user may utilize the cycler 90 to exercise his or her arms, without having to reposition the chair. As shown, in the illustrated embodiment of FIG. 3 the lock 150 is engaged to hold the cycler 90 in the second position by inserting the threaded fastener 160 through the second lock aperture 190, into the lock receiver 180 on the upright member 60. Although in the illustrated embodiment the second lock aperture 190 is in the movable frame 70, in an embodiment, the second lock aperture 190 may be located in a generally central portion of the stationary appendage supports 80.

[0035] FIGS. 4-6 illustrate an embodiment of an exercise device 10', which is similar to the embodiment of the exercise device 10; however has a different movement mechanism for the exercise assembly 66. As shown in FIG. 4, the movable frame 70 may be coupled to the upright member 60 by a hinge 200. The hinge 200 may be of any suitable construction or configuration, including in an embodiment being configured to allow the movable frame 70 to pivot over the top of the upright member 60. In such an embodiment, the hinge 200 may be attached to both a top portion of the upright member 60, and a middle portion of the movable frame 70. Although in the embodiment of FIG. 4, the lock 150 again comprises the threaded fastener 160 as described above, in other embodiments utilizing the hinge 200, any other locking mechanism may be utilized. In an embodiment of the exercise device 10' utilizing the hinge 200 that has the threaded fastener 160 as a part of the lock 150, a second lock receiver 180' may be provided on an opposing side of the upright member 60, such that the movable frame 70 may be locked to the upright member 60 regardless of whether the cycler 90 is in the first position to be engaged by a user's feet, or in the second position to be engaged by a user's arms. In an embodiment, the lock receiver 180 and the second lock receiver 180' may connect within the upright member 60.

[0036] In FIG. 5, it is seen that after disengaging the lock 150 by removing the threaded fastener 160, the movable frame 70 is free to pivot about the hinge 200, which in the illustrated embodiment, is generally across a top portion of the upright member 60. As shown, this rotation across the upright member 60 moves the stationary appendage supports 80 from a position distal to the support surface to a position

proximal to the support surface. Likewise, the cycler 90 moves from the first a position proximal to the support surface to the second position distal to the support surface. As illustrated in FIG. 6, where the cycler 90 is in the second position so as to be engaged by the hands of the user, the lock 150 may again engaged to hold the cycler 90 fixed relative to the support frame 20, however with the cycler 90 now in the second position. As shown, in the illustrated embodiment this may again comprise inserting the threaded fastener 160 through the second lock aperture 190, into the second lock receiver 180' on the opposing side of the upright member 60. [0037] FIGS. 7-9 illustrate an embodiment of an exercise device 10", which is similar to the embodiments of the exercise devices 10 and 10', however has different movement and support mechanisms. As shown in FIG. 7, instead of the free-standing support frame 20 of the previous embodiments, the exercise device 10" comprises a support leg 210 that is pivotally coupled to an exercise assembly 66' that includes a movable frame 70', described in greater detail below. The coupling of the support leg 210 and the moveable frame 70' may be by any suitable mechanism, including but not limited to utilizing the hinge 200 described above. In the illustrated embodiment, a pivot flange 220 extends from the movable frame 70', so that the movable frame 70' may pivot about a pivot pin 225 in the pivot flange 220. A pivot lock 230 may be provided to lock the movable frame 70' relative to the support leg 210. In an embodiment, the pivot lock 230 may comprise a pin or threaded fastener that may be inserted into one or more apertures 235 in the pivot flange 220, and into a corresponding aperture in the support leg 210, so as to prevent movement of the movable frame 70' relative to the support leg 210. In an embodiment, the pivot flange 220 may be configured so as to change an angle formed between the movable frame 70' and the support leg 210. In the illustrated embodiment, the one or more apertures 235 individually include opposing apertures 235a and opposing apertures 235b, which may be mirrored on both sides of the pivot flange 220 to surround the support leg 210. As shown, the movable frame 70' may pivot with respect to the support leg 210 such that the opposing apertures 235a may align with the corresponding aperture on the support leg 210, so that the pivot lock 230 may be inserted therethrough. As shown in FIG. 7, aligning and locking the support leg 210 with the opposing apertures 235a may correspond with forming an angle α between the movable frame 70' and the support leg 210. It may also be appreciated that opposing apertures 235b may correspond with forming an angle β between the movable frame 70' and the support leg 210, as described in greater detail below.

[0038] The support leg 210 may be of any suitable construction or configuration, including in the illustrated embodiment having a support bar 240 that couples to the pivot flange 220 at one end, and couples to or otherwise contains a ground support 250 at an opposing end. In some embodiments, the ground support 250 may be similar to the first ground support 30 or the second ground support 40 described above. In some embodiments the support leg 210 may comprise one or more metal tubes, wherein extremities thereof are capped in plastic, rubber, or similar material, so as to reduce incidence of scratching, cutting, or other harm from metalwork in forming the metal tubes, for example. In some embodiments, such as that illustrated, the extremities of the ground support 250 may contain end caps or foot pads 36, which may be similar to those found on first and second ground supports 30 and 40 described above.

[0039] In some embodiments, exercise assembly 66' may be similar to the exercise assembly 66 described above. For example, the movable frame 70' may contain at one end the stationary appendage supports 80, which may include hand or foot supports that are configured to be engaged by a user of the exercise device 10". As above, the stationary appendage supports 80 may be of any suitable shape or configuration, and in some embodiments may be wrapped in a relatively soft material compared to the remainder of the exercise device 10", so as to facilitate user comfort. As in the previous embodiments, the cycler 90 is mounted to the movable frame 70', however as shown in the illustrated embodiment, a cycler support 260 may extend from the cycler 90 so as to cooperate with the support leg 210 to raise the cycler 90 off of the ground at a sufficient height to be engaged and cycled by the feet of a user. In an embodiment, the cycler support 260 may form a part of the movable frame 70', whereby the cycler 90 is mounted to an intermediate portion of the movable frame 70' as opposed to the extremity of the movable frame 70' distal from the stationary appendage supports 80. In an embodiment, where the cycler 90 is mounted to the extremity of the movable frame 70', the cycler support 260 may extend from the cycler 90. In the illustrated embodiment, the cycler support 260 comprises an extension bar 270. In some embodiments the extension bar 270 may merely terminate with an end cap, such that the combination of the ground support 250 and the extension bar 270 define a plane on the support surface for the exercise device 10" to create tripod-like stability. In the illustrated embodiment, however, a second ground support 280 is coupled to or otherwise formed on the end of the extension bar 270 distal from the stationary appendage supports 80. In an embodiment, the second ground support 280 may be smaller than the ground support 250 of the support leg 210. For example, in the illustrated embodiment, the second ground support 280 is smaller than the width of the crankset 100.

[0040] The conversion of the exercise device 10" from a position to be engaged by the feet of a user to a position to be engaged by the hands of a user is depicted in FIGS. 8 and 9. As shown in FIG. 8, after disengaging the pivot lock 230, the movable frame 70' becomes free to pivot about the pivot flange 220. In the illustrated embodiment, this movement is generally across a top portion of the support bar 240. As shown, this pivotal movement may narrow the angle formed between the stationary appendage supports 80 and the ground support 250 from the angle α to the angle β . In an embodiment, this narrower angle β corresponds to the second locking position for the pivot lock 230, aligning the support bar 240 with the opposing apertures 235b to hold the stationary appendage supports 80 and the ground support 250 locked in a more acute configuration. As shown in FIG. 9, the entirety of the exercise device 10" may then be pivoted about the ground support 250 until the stationary appendage supports 80 and the ground support 250 support the exercise device 10" on the support surface. By pivoting the exercise device 10" in this manner, the cycler 90 moves from a first position proximal to the support surface to a second position distal to the support surface. As illustrated in FIG. 9, where the cycler 90 is in the second position so as to be engaged by the hands of the user, the pivot lock 230 may prevent movement between the stationary appendage supports 80 and the ground support 250, such that they hold the cycler 90 fixed above the support surface in the second position.

[0041] In FIG. 10, an embodiment of an exercise device 10* is depicted, having a different mechanism for moving the cycler 90 between the first position configured to be engaged by the feet of a user, and the second position configured to be engaged by the hands of a user. As shown, the exercise device 10* comprises a support frame 290. In an embodiment, the support frame 290 may be substantially similar to the support frame 20 of the embodiments illustrated above. In the illustrated embodiment, the support frame 290 includes a first ground support 300, a second ground support 310, and a connector bar 320. An upper portion of support frame 290 may comprise or be coupled to upright member 330. In an embodiment, each of first ground support 300, second ground support 310, and the connector bar 320 may be similar respectfully to the first ground support 30, the second ground support 40 and the connector bar 50, as described above. In the illustrated embodiment, the first ground support 300 is connected to a bottom portion of the upright member 330 by the connector bar 320. Likewise, in the illustrated embodiment the second ground support 310 is coupled to a lower portion of the upright member 330, such that the combination of the first ground support 300, the second ground support 310, the connector bar 320, and the bottom portion of the upright member 330 form the support frame 290 that supports the remainder of the upright member 330 to a desired elevation above the support surface.

[0042] As shown in the exercise device 10*, the stationary appendage supports 80 may be provided at the top of the upright member 330, distal from the support surface. As such, the upright member 330 may raise to a sufficient height above the support surface such that the stationary appendage supports 80 may be readily grasped by the hands of a user of the exercise device 10*, as described in greater detail below. In some embodiments, such as in the illustrated embodiment, the upright member 330 of the exercise device 10* may include a plurality of locking positions 340, which may extend from a position on the upright member 330 that is proximal to the support frame 290 to a position on the upright member 330 that is proximal to the stationary appendage supports 80. The locking positions 340 may be of any construction or configuration, including but not limited to holes, gaps, slits, grooves, saw teeth, or so on that are formed in or coupled to the upright member 330. Slidable or otherwise laterally moveable along the upright member 330 is a movable member 350 that supports the cycler 90. The movable member 350 may be of any suitable construction or configuration, including but not limited to comprising an enveloping member that may at least partially surround the upright member 330, so as to be raised or lowered along the upright member 330. In an embodiment, the movable member 350 may be formed in or otherwise coupled to the cycler 90.

[0043] In an embodiment, the movable member 350 may also contain or be configured to receive a lock 360. In some embodiments where the exercise device 10* includes the plurality of locking positions 340, the lock 360 may be received in or otherwise associate with the plurality of locking positions 340, to hold the cycler 90 in one of the plurality of locking positions 340. In an embodiment, the position proximal to the support surface may be characterized as the first position so that the cycler 90 may be engaged by feet of a user of the exercise device 10*, while the position proximal to the stationary appendage supports 80 may be characterized as the second position so the cycler 90 may be engaged by the hands of the user. In an embodiment, one or more lips,

flanges, or other bodies coupled to or otherwise formed on the upright member 330 may be configured to prevent the movable member 350 from sliding beyond the first position and/or the second position. In an embodiment, intermediate ones of the locking positions 340 may be provided such that the cycler 90 may be held in a number of discrete positions along the upright member 330 that may be more suitable for a number of users of differing heights or torso/leg lengths. In some embodiments, the lock 360 may be configured to engage the upright member 330 itself (as opposed to the locking positions 340). In such embodiments, the movable member 350 may engage any number of places along the upright member 330, such that discrete locking positions 340 may be superfluous. For example, in an embodiment where the movable member 350 at least partially surrounds the upright member 330, the lock 360 may be configured to Lighten the movable member 350 around the upright member 330, so as to increase friction therebetween, and prevent slidable movement of the movable member 350. In some such embodiments, the discrete locking positions 340 may be omitted from the upright member 330. In other such embodiments, the discrete locking positions 340 may be present on the upright member 330 as guide points, but intermediate locking of the movable member 350 between the locking positions 340 may also be possible.

[0044] Turning to FIGS. 11 and 12, the operation of the exercise device 10 by a user U is depicted. It may be appreciated that similar operation may be performed with other embodiments, including but not limited to those described herein. As shown in FIG. 11, the exercise device 10 is configured as depicted in FIG. 1, where the cycler 90 is in the first position, proximal to the support surface so that it may be engaged by the feet F of the user U. The user U may position a chair C proximal to the exercise device 10, and while sitting on the chair C, place his feet F on the pedals 110. The user U may then use his feet F to cycle the cycler 90 through cyclical movement of his legs L. During such motion, each leg L may alternatively be extended away from the user U, while the other leg L may be contracted towards the user U, exercising the leg muscles. Before some exercises, the user U may turn the hand screw 120 to adjust the resistance of the cycler 90, to alter the difficulty of cycling the cycler 90 through movement of his legs L. Furthermore, during some exercises the user U may engage the stationary appendage supports 80 with his hands H, which may provide additional stability for the exercise device 10, allow the user U to mimic the feel of riding a bicycle, or so on.

[0045] In FIG. 12, the exercise device 10 has been configured as depicted in FIG. 3, where the cycler 90 is in the second position, distal from the support surface so that the cycler 90 may be engaged by the hands H of the user U. Again, the user U may position the chair C proximal to the exercise device 10. Although during some exercises the user U may place his feet F on the stationary appendage supports 80, the user U may optionally place his feet on the support surface, or on other portions of the support frame 20. The user U may then use his hands H to grasp the pedals 110, and use his arms A to cycle the cycler 90 through cyclical movement of his arms A. During such motion, each arm A may alternatively be extended away from the user U while the other arm A may be contracted towards the user U, exercising the arm muscles. Again, before some exercises, the user U may turn the hand screw 120 to adjust the resistance of the cycler 90, to alter the difficulty of cycling the cycler 90 through movement of his arms A.

[0046] Although in the illustrated embodiments above, the exercise devices 10, 10', 10", and 10* are depicted as configured to utilize a separate chair, such as the chair C, to support the weight of the user U when engaging the cycler 90, it may be appreciated that in some embodiments a seat S may be coupled to the cycler 90 for use by the user U. For example, in some of the embodiments described above, the seat S may be mounted to a portion of the support frame 20 or the support frame 290, allowing the user U to sit thereon to engage the cycler 90 in the various exercises of his arms A or legs L. Accordingly, depicted in FIG. 13 is an embodiment of an exercise device 400 having the seat S coupled to the exercise assembly 66 through an adjustable support frame 410. As shown, the adjustable support frame 410 is configured to contact a support surface (i.e. the ground support surface or floor, as described above), and to support the exercise assembly 66 relative to the seat S. In the view of FIG. 13, the exercise assembly 66 is positioned such that the cycler 90 is in the first position, configured to be engaged by the feet F of a

[0047] In the illustrated embodiment, the adjustable support frame 410 comprises separate pieces that may be assembled together and configured such that the seat S may be moved closer to or further away from the exercise assembly 66. As shown, in an embodiment the adjustable support frame 410 comprises an exerciser base 420, and a seat base 430. While in some embodiments each of the exerciser base 420 and the seat base 430 may be unitary bodies configured to move relative to one another, in the illustrated embodiment each of the exerciser base 420 and the seat base 430 are themselves assemblies of constituent members. In an embodiment, the exerciser base 420 includes an exerciserside adjusting support member 440 while the seat base 430 includes a seat-side adjusting support member 450. Although in the illustrated embodiment the exerciser-side adjusting support member 440 is configured with an open end 460 configured to receive the seat-side adjusting support member 450 therein, in other embodiments different engagements between the exerciser-side adjusting support member 440 and the seat-side adjusting support member 450 are also possible. As further shown in FIG. 13, a seat base lock 470 may be provided to lock the seat base 430 (and accordingly the seat S) relative to the exerciser base 420 (and accordingly the exercise assembly 66). In the illustrated embodiment, the seat base lock 470 is configured as a threaded fastener configured to engage an aperture 480 in the exerciser-side adjusting support member 440, to be received in one of a plurality of seat positioning apertures 490 in the seat-side adjusting support member 450. In other embodiments, the seat base lock 470 may comprise a user-graspable pin, or other lockable member configured to prevent movement between the exerciser base 420 and the seat base 430. In yet other embodiments, the seat base lock 470 may be of any other configuration that would prevent relative movement between the seat S and the cycler 90 when the cycler 90 is positioned in either the first position, proximal to the support surface so that it may be engaged by the feet F of the user U, or the second position, distal to the support surface, so that it may be engaged by the arms A of the user U.

[0048] In the illustrated embodiment, the exerciser base 420 contains an exerciser ground support 500, which is mounted to or otherwise formed on the exerciser-side adjusting support member 440. Likewise, the seat base 430 of the illustrated embodiment contains a seat ground support 510,

which is mounted to or otherwise farmed on the seat-side adjusting support member 450. In some embodiments, the exerciser ground support 500 and the seat ground support 510 may extend generally transverse to the orientation of the adjustable support frame 410, so as to provide a larger planar support area than the assembly of the exerciser-side adjusting support member 440 and the seat-side adjusting support member 450 alone. As shown, in some embodiments the exerciser ground support 500 and the seat ground support 510 may extend generally parallel to one another, and generally perpendicular to the orientations of the exerciser-side adjusting support member 440 and the seat-side adjusting support member 450. In some embodiments, each of the exerciser ground support 500 and the seat ground support 510 may be capped by the end caps or foot pads 36, similar to the engagement of the end caps or foot pads 36 on the first ground support 30 and second ground support 40 in the embodiments described above.

[0049] In the illustrated embodiment of exercise device 400, the upright member 60 is coupled to or otherwise formed on the exerciser base 420, and extends away from the support surface so as to support the exercise assembly 66 at a desired elevation above the support surface. As shown, in some embodiments a support member 520 may further extend between the upright member 60 and the exerciser-side adjusting support member 440, so as to provide an additional point of supporting contact for the upright member 60. In some embodiments, the upright member 60 may be configured to provide sufficient clearance above the support surface such that the exercise assembly 66 may be moved from the first position (for exercising the feet F of the user U) to the second position (for exercising the arms A of the user U). Likewise, the upright member 60 may be positioned or otherwise angled so as to provide sufficient clearance away from other portions of the exercise device 400, further facilitating an unimpeded movement of the exercise assembly 66 from the first position to the second position. In some embodiments, the user U might need to expand the adjustable support frame 410 (i.e. moving the seat S away from the exercise assembly 66) so that there is sufficient clearance for the exercise assembly 66 to move on the upright member 60 such that the cycler 90 may move between the first and second positions.

[0050] Similar to the support frame 20 and the constituent members thereof, the adjustable support frame 410 may be made out of any suitable material or combination of materials. For example, one or more of the exerciser-side adjusting support member 440, the exerciser ground support 500, the seat-side adjusting support member 450, the seat ground support 510, the upright member 60, the support member 520, or so on, may selectively be made of metal, wood, hard plastic, composite materials (such as epoxy coated carbon fiber material), or other material having sufficient durability to permit exercises while maintaining structural stability of the exercise device 400. In the illustrated embodiment, each of the members of the adjustable support frame 410 are made of hollow metal tubes, having connecting apertures therein to receive connecting fasteners, such as screws, bolts, or other connecting members. As indicated above, in some embodiments one or more of the members may be at least partially smaller than one of the other members, such that the smaller member portion may be inserted into a receiving portion of the larger member.

[0051] In the illustrated embodiment of FIG. 13, the engagement between the upright member 60 and the exercise

assembly 66 in the exercise device 400 is similar to that of the exercise device 10' described above. In particular, the exercise device 400 contains the hinge 200, such that the exercise assembly 66 is configured to pivot above and over the upright member 60 when moving between the first position and the second position. As shown in FIG. 13, in some embodiments the exercise device 400 may be configured such that when the cycler 90 is in the first position, so as to be engaged by the feet F of the user, the upright member 60 may be positioned between the exercise assembly 66 and the seat S. When the cycler 90 is moved into the second position, however, so as to be engaged by the arms A of the user U as described below, the exercise assembly 66 may be moved such that it is positioned between the upright member 60 and the seat S, so that the cycler 90 is closer to the user U. As further shown in FIG. 13, in some embodiments either or both of the upright member 60 and exercise assembly 66 may contain angled portions therein, such that when in the first position, the cycler 90 is distal from the seat S (allowing for the longer reach of the legs L of the user U), while the stationary appendage supports 80 are proximal to the seat S (allowing for the shorter reach of the arms A of the user U). While in the second position, however, the angled portions permit the cycler 90 to be closer to the seat S (again allowing for the shorter reach of the arms A of the user U), while the stationary appendage supports 80 are further from the seat S (i.e. so as to limit inadvertent contact with the legs L). In the illustrated embodiment, the angled portion of the exercise assembly 66 is present in the movable frame 70. In other embodiments, however, the angled portion may instead be found in a portion of the stationary appendage supports 80 and/or in a portion of the cycler 90.

[0052] As shown, the exercise device 400 may contain the lock 150 configured to hold the cycler 90 in the first or second positions. Although the configuration of the lock 150 may vary across embodiments, in the illustrated embodiment of exercise device 400 the lock 150 is similar to that of the exercise device 10' described above. Accordingly, the lock 150 contains a threaded fastener 160, which is configured to be inserted through at least a portion of both the exercise assembly 66 and the upright member 60. Departing from the embodiment of the exercise device 10', however, in the illustrated embodiment of the exercise device 400 the threaded fastener 160 is configured to pass through either of opposing ends of a common lock aperture 525 formed in the upright member 60, and exit the other, before being received in either the first lock receiver 180 or the second lock receiver 180', which are disposed on opposing portions of the movable frame 70. As noted above, additional or alternative mechanisms are also possible, configured to alternatively lock the cycler 90 in the first position or the second position.

[0053] It may be appreciated that angle of the exercise assembly 66 relative to the support surface may be configured such that the user U may engage the exercise device 400 in a slightly reclined position. Likewise, other portions of the exercise device 400 may further be configured for a slightly reclined engagement by the user U. For example, in the embodiment of FIG. 13, the seat S contains both a seat bottom 530 and a backrest 540, both of which may be angled such that the portion of the seat bottom 530 proximal to the exercise assembly 66 is slightly higher relative to the support surface than the portion of the seat bottom 530 distal from the exercise assembly 66. Likewise, the backrest 540 may be angled so that the portion of the backrest 540 distal from the support surface is angled further away from the exercise assembly 66,

while the portion of the backrest 540 proximal to the support surface is angled closer to the exercise assembly 66. Such a configuration may allow a user U of the exercise device 400 to recline backwards against the backrest 540, and further extend his legs L to the cycler 90 when the cycler 90 is in the first position. In the illustrated embodiment, supplemental stationary appendage supports 550 are mounted to the seat S, for the user U to optionally engage when cycling the cycler 90 with his feet F. When the cycler 90 is in the second position, the user U may sit up straighter in the seat S (i.e. forward from the backrest 540) and reach forward to engage the cycler 90 with his arms A. As was indicated above, while the movement of the cycler 90 between the first and second positions in exercise device 400 is depicted as utilizing a mechanism similar to that of the exercise device 10', in other embodiments the exercise device 400 may utilize a different mechanism. For example, in an embodiment the exercise device 400 may have a configuration similar to that of the exercise device 10, whereby the exercise assembly 66 pivots in a plane generally parallel to the upright member 60. In another embodiment, the exercise device 400 may have a configuration similar to that of the exercise device 10*, whereby the cycler 90 is slidable up and down the upright member 60 between the first and second positions.

[0054] FIG. 14 shows the exercise device 400 of FIG. 13 with the exercise assembly 66 positioned on the adjustable support frame 410 such that the cycler 90 is in the second position, configured to be engaged by the hands H of the user U, so as to exercise his arms A. As shown, in some embodiments the angle formed on the movable frame 70, and the connection of the movable frame 70 to the upright member 60 by the hinge 200, may be utilized to bring the cycler 90 in the second position closer into arms reach of the user U. In some embodiments, the length of a portion of the movable frame 70 proximal to the cycler 90 may be configured such that the crankset 100 is sufficiently above the legs L of the user U, so that the cyclical motion of the arms A when the hands H are cycling the pedals 110 (which move in a circle or other ellipse defined at least in part by the length of the crank arms 115) does not cause the arms A or the pedals 110 to collide with the legs L. As may be appreciated in the illustrated view of the exercise device 400, a frame engaging member 560 may be provided on an portion of the cycler 90, and configured such that when the cycler 90 is moved in to the first position, the frame engaging member 560 engages the adjustable support frame 410 to provide a secondary point of contact between the exercise assembly **66** and the adjustable support frame **410**.

[0055] An example of such a supplemental engagement may be seen in the view of FIG. 15, which again depicts the exercise device 400 in the first position, only from a different angle from the view of FIG. 13, whereby a forward portion of the cycler 90 and the exerciser base 420 are visible. In some embodiments the supplemental engagement may be formed between the frame engaging member 560 and the exerciserside adjusting support member 440, which may stabilize the exercise assembly 66 against the adjustable support frame 410, such as when the user U is engaging the cycler 90 with his feet F. As shown in FIG. 15, in some embodiments the cycler frame engaging member 560 may be configured to pivot onto the exerciser ground support 500 when the cycler 90 is Moved from the secondary position to the first position. In the illustrated embodiment, the frame engaging member 560 has a curved member configured to match a contour of the exerciser ground support 500. In some embodiments, the

frame engaging member 560 may have padding or other resilient material thereon, so as to prevent scratching or banging between the cycler 90 and the exerciser ground support 500 when the cycler 90 is being lowered into the first position, or from friction during cycling of the cycler 90 by the feet of the user U.

[0056] Although this disclosure describes in detail what is currently considered to be the most practical and preferred embodiments, it is to be understood that such detail is solely for the purpose of illustration, and that the scope of protection sought is not limited to the disclosed embodiments, but, on the contrary, is intended to cover modifications and equivalent arrangements that are within the spirit and scope of the appended claims. For example, it is to be understood that, to the extent possible, one or more features of any embodiment can be combined with one or more features of any other embodiment.

What is claimed is:

- 1. An exercise device, comprising:
- an adjustable support frame configured to contact a support surface:
- a seat mounted on the adjustable support frame;
- a cycler coupled to the adjustable support frame, the cycler constructed and arranged to be selectively positioned with respect to the adjustable support frame at a first position so as to be engaged by feet of a user of the exercise device, and a second position so as to be engaged by hands of the user; and
- a lock configured to lock the cycler relative to the frame in the first position or the second position;
- wherein the adjustable support frame is configured to allow the user to move the seal to a plurality of positions relative to the cycler.
- 2. The exercise device of claim 1, further comprising a movable frame connecting the cycler and the support frame, wherein the movable frame is adjustably mounted to the support frame to move the cycler between the first position and the second position.
- 3. The exercise device of claim 2, wherein the movable frame is configured to pivot with respect to an upper portion of the support frame.
- **4**. The exercise device of claim **3**, wherein the movable frame is configured to pivot generally parallel to the upper portion of the support frame.
- 5. The exercise device of claim 4, wherein the movable frame is coupled to the upper portion of the support frame by a pivot pin.
- **6**. The exercise device of claim **3**, wherein the movable frame is configured to pivot across the upper portion of the support frame.
- 7. The exercise device of claim 6, wherein the movable frame is coupled to the upper portion of the support frame by a pivot hinge.
- 8. The exercise device of claim 2, wherein the movable frame is configured to slide with respect to the support frame.
- **9**. The exercise device of claim **8**, wherein the support frame includes a plurality of incremental lock receivers, such that the lock may secure the movable frame in a plurality of positions on the support frame.
- 10. The exercise device of claim 2, wherein the lock is configured to selectively secure the movable frame to the support frame.

- 11. The exercise device of claim 2, wherein the lock comprises a threaded fastener configured to be received by receivers in the movable frame and the support frame.
- 12. The exercise device of claim 1, further comprising a resistance enhancer that increases an amount of force required to cycle the cycler.
- 13. The exercise device of claim 12, wherein the resistance enhancer is configured to increase friction against the cycler.
- 14. The exercise device of claim 1, further comprising a stationary appendage support configured to be engageable by the hands of the user when the cycler is in the position to be engaged by the feet of the user.
- 15. The exercise device of claim 14, further comprising a movable frame connecting the cycler and the support frame, wherein the movable frame is adjustably mounted to the support frame, and wherein the stationary appendage support and the cycler are distal from each other on the movable frame.
- **16**. The exercise device of claim **1**, further comprising a seat lock configured to lock the seat into one of the plurality of positions relative to the cycler.
- 17. The exercise device of claim 1, wherein the cycler and the seat are each coupled to associated portions of the adjustable support frame, such that the portion of the adjustable support frame associated with the seat is configured to move towards or away from the portion of the adjustable support frame associated with the cycler
- 18. The exercise device of claim 17, wherein a part of the portion of the adjustable support frame associated with the seat is slidable either within or around a part of the portion of the adjustable support frame associated with the cycler.
- 19. The exercise device of claim 1, wherein the cycler comprises a frame engaging member configured to engage the adjustable support frame when the cycler is in the first position, and disengage from the adjustable support frame when the cycler is in the second position.
- 20. The exercise device of claim 1, wherein the cycler is further constructed and arranged such that when moved from the first position to the second position, the cycler laterally moves closer to the seat, and vertically moves further from the support surface.
- 21. A method of exercising using an exercise device having an adjustable support frame configured to contact a support surface, a cycler coupled to the adjustable support frame, the cycler configured to move with respect to the adjustable support frame to alternatively place the cycler in positions to be engaged by hands or feet of a user of the exercise device, and a seat coupled to the adjustable support frame, whereby the seat is configured to allow a user to move the seat to a plurality of positions relative to the cycler, the method comprising:
 - adjusting the adjustable support frame to move the seat relative to the cycler;
 - locking the cycler in a position to be engaged by a selected one of the hands or the feet of the user; and
 - engaging the cycler by the selected one of the hands or Feet, to exercise the selected one of the hands or feet.
 - 22. An exercise device, comprising:
 - a support frame configured to contact a support surface;
 - a cycler coupled to the adjustable support frame, the cycler constructed and arranged to be selectively positioned with respect to the adjustable support frame at a first position so as to be engaged by feet of a user of the exercise device, and a second position so as to be engaged by hands of the user; and

- a lock configured to lock the cycler relative to the frame in the first position or the second position;
- wherein the cycler further comprises a frame engaging member configured to engage the support frame when the cycler is in the first position, and disengage from the support frame when the cycler is in the second position.
- 23. The exercise device of claim 22, wherein the cycler is further constructed and arranged such that when moved from the first position to the second position, the cycler laterally moves across the support surface, and vertically moves further from the support surface.

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