UNITED STATES DISTRICT COURT, WESTERN DISTRICT OF WASHINGTON

PRECOR INCORPORATED, a Delaware corporation,

Plaintiffs,

v.

KEYS FITNESS, INC., a Texas corporation,

Defendant.

No.

COMPLAINT FOR PATENT INFRINGEMENT AND BREACH OF CONTRACT

JURY TRIAL REQUESTED

Plaintiff Precor Incorporated ("Precor") and Larry Miller ("Miller"), by their attorneys, complain of Defendant Keys Fitness, Inc. ("Keys Fitness") as follows:

#### **PARTIES**

- 1. Plaintiff Precor is a corporation organized and existing under the laws of the State of Delaware. Precor maintains a principal place of business at 20031 142<sup>nd</sup> Ave. NE, P.O. Box 7202, Woodinville, WA 98072-4002.
- 2. Plaintiff Miller is an individual residing in Michigan. Miller joins Precor in the allegations asserted in this action.
- 3. Upon information and belief, Keys Fitness is a corporation organized and existing under the laws of the State of Texas. Keys Fitness has a principal place of business at 4009 Distribution Drive, Suite 250, Garland, Texas 75041.

Complaint - 1

FOX LAW FIRM 1725 Westlake Avenue N., Suite 150 Seattle, Washington 98109 Telephone: (206) 217-2230 Facsimile: (206) 217-2201

## **JURISDICTION AND VENUE**

- 4. This is a civil action for patent infringement arising under the patent laws of the United States, 35 U.S.C. § 101 *et. seq.* Jurisdiction is proper under 28 U.S.C. §§ 1331 and 1338(a) and (b). Defendant has and continues to import or manufacture, offer for sale, and/or sell products which infringe Precor's and Miller's patent rights in the State of Washington and elsewhere throughout the United States.
- 5. Jurisdiction is also proper under 28 U.S.C. § 1332. Complete diversity of citizenship exists among the parties and the matter in controversy exceeds the sum of \$75,000.

#### BACKGROUND

- 6. On January 24, 1995, the United States Patent and Trademark Office granted U.S. Patent No. 5,383,829 entitled "Stationary Exercise Device" (the "Miller patent") to inventor Larry D. Miller. A copy of the Miller patent is attached as Exhibit A. The Miller patent encompasses proprietary technology hereinafter referred to as the "elliptical cross-trainer." The patent is both valid and enforceable.
- 7. Precor is the exclusive licensee of the Miller patent and all of the elliptical cross-trainer technology it encompasses. Precor has the exclusive right to manufacture, use, offer for sale and sell products that incorporate the technology of the Miller patent.
- 8. On or about May 15, 1998, the first of five reexamination requests of the Miller patent in the United States Patent and Trademark Office pursuant to 37 C.F.R. §1.510.
- 9. Despite the five reexamination proceedings, the United States Patent and Trademark Office upheld the validity of the Miller patent in light of both the art considered during the original prosecution and the art cited by Precor's competitors.
- 10. The United States Patent and Trademark Office issued a Reexamination Certificate for U.S. Patent No. 5,383,829 on March 5, 2002, which is attached as Exhibit B. The Reexamination Certificate states that: "The patentability of claims 1-6 is confirmed.

Claim 7 is determined to be patentable as amended. New claims 8-75 are added and determined to be patentable." The Reexamined Miller patent remains both valid and enforceable.

#### PRIOR LITIGATION

- 11. On October 1, 1997, Keys Fitness filed a complaint in the United States District Court for the Northern District of Texas at Dallas, Civil Action No. 3:97-CV-21416-T naming Precor as a defendant and alleging, *inter alia*, unfair competition and seeking declaratory judgment of noninfringement, invalidity, and unenforceability of the Miller Patent. This action was transferred to the Western District of Washington: Civil Action No. C98-192R.
- 12. On October 8, 1997, Precor filed a complaint in the U.S. District Court for the Western District of Washington, Civil Action No. C97-1608WLD naming Keys Fitness as a defendant. Precor alleged that Keys Fitness had infringed US. Patent No. 5,383,829 by the manufacture and sale of an elliptical exercise machine called the E-Trainer.
- 13. Larry Miller, Keys Fitness, and Precor decided to settle all pending actions among the parties. On or about March 4, 1998, a Settlement Agreement among Miller, Keys Fitness and Precor became effective ending the pending litigations among the parties. See Exhibit C and Exhibit D.
- 14. In the Settlement Agreement among the Parties, Keys Fitness, including its directors, officers, agents, employees, parent companies and subsidiaries, agreed "that after the Effective Date it will not manufacture, use, offer for sale, sell or import any elliptical exercise device which infringes any claim of the '829 patent." See Exhibit C, pg. 3, ¶ 3.
- 15. In paragraph five of the Settlement Agreement, Keys Fitness acknowledged the validity and enforceability of the '829 Patent. See Exhibit C, pg 4, ¶ 5.

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Complaint - 4

# **VIOLATION OF SETTLEMENT**

- Upon information and belief, Keys Fitness currently manufactures, causes to 17. be manufactured, imports, offers for sale and/or sells elliptical cross-trainer products, including but not limited to the Healthtrainer HT640EL Elliptical Trainer, the Ironman Elliptical 250e Elliptical Trainer, and the Ironman Elliptical 450e Elliptical Trainer that infringe Claims 17-23 of the Miller Patent under 35 U.S.C. § 271. Representative pictures of each of the accused devices are attached as Exhibit E.
- Infringement of one or more of the claims of the Miller Patent is a direct 18. violation of the Settlement Agreement dated March 4, 1998.

## PATENT INFRINGEMENT

- Upon information and belief, Keys Fitness currently manufactures, causes to 19. be manufactured, imports, offers for sale and/or sells elliptical cross-trainer products, including but not limited to the Healthtrainer HT640EL Elliptical Trainer, the Ironman Elliptical 250e Elliptical Trainer, and the Ironman Elliptical 420e Elliptical Trainer that infringe Claims 17-23 of the Miller Patent under 35 U.S.C. § 271. Representative pictures of each of the accused devices are attached as Exhibit E.
- 20. As stated above, Keys Fitness has acknowledged the validity and enforceability of the Miller Patent.
- Keys Fitness was aware of the Miller Patent and Precor's proprietary "elliptical 21. cross-trainer" technology. Keys Fitness has admitted validity of the Miller Patent. Keys Fitness has no license from Precor or Miller, but has nevertheless deliberately and willfully infringed and continue to infringe the Miller '829 patent, thereby causing irreparable harm and damage to Precor.

#### **JURY TRIAL**

22. Precor and Miller respectfully request a jury trial on the merits.

## REQUESTED RELIEF

Wherefore, Precor and Miller jointly request the following relief:

- That the Court preliminarily and permanently enjoin defendant, its officers, (A) agents, servants, employees and attorneys, and all persons in active concert or participation with any of them from any act of infringement, inducement of infringement, or contributory infringement of the Miller '829 patent, pursuant to 35 U.S.C. § 283.
- That the Court order defendant to deliver up for destruction any and all of their (B) products that infringe any claim of the Miller '829 patent, pursuant to 35 U.S.C. § 283.
  - That the Court order defendant to pay damages specified at trial. (C)
- That the Court order defendant to compensate Precor and Miller for all (D) damages suffered as a result of the infringement of the Miller '829 patent, including direct and consequential damages and all other damages, to the fullest extent of the law, pursuant to 35 U.S.C. § 284.
- (E) That the Court find this is an exceptional case, and award Precor and Miller their attorneys' fees, costs and expenses in bringing and prosecuting this lawsuit, pursuant to 35 U.S.C. § 285.
- That the Court award Precor and Miller treble damages pursuant to 35 U.S.C. (F) § 284.
- That Precor and Miller have such further and other relief as this Court may (G) deem just.

Dated this 13th day of October, 2006.

FOX LAW FIRM

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# **EXHIBIT A**

## US005383829A

United States Patent [19]

Miller

Patent Number: [11]

5,383,829

Date of Patent: [45]

Jan. 24, 1995

[54]	STATIONARY EXERCISE DEVICE		
[76]	Inventor:	Larry Miller, 1628 Treeside Dr., Rochester, Mich. 48307	
[*]	Notice:	The portion of the term of this patent subsequent to Sep. 7, 2010 has been disclaimed.	
[21]	Appl. No.:	106,378	
[22]	Filed:	Aug. 13, 1993	
	Relat	ted U.S. Application Data	
[63]	Continuation of Ser. No. 953,897, Sep. 30, 1992, Pat. No. 5,242,343.		
[51]	Int. Cl.6	<b>A63B 69/16</b> ; A63B 22/04	
[52]	U.S. Cl	<b></b>	
[58]	Field of Sea	arch 482/51, 52, 53, 57,	
		482/58, 70, 110, 148	
[56]	References Cited		
	U.S. PATENT DOCUMENTS		
	219 439 9/1	879 Riend	

3,759,511 4,509,742 4,645,200 4,720,093 4,869,494	9/1973 4/1985 2/1987 1/1988 9/1989	Brown	272/58 272/73 272/73 272/70 272/73
4,949,954	8/1990	Hix	272/73

#### FOREIGN PATENT DOCUMENTS

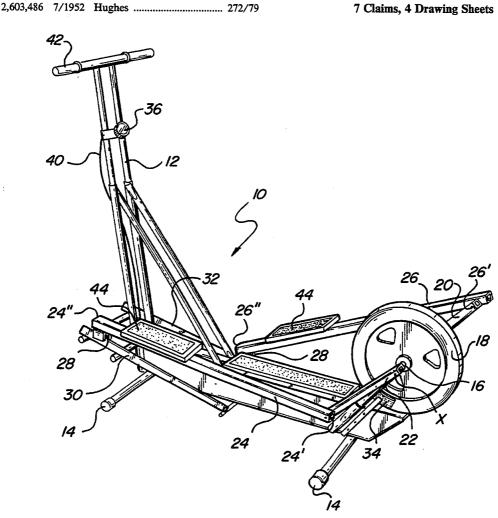
2919494 11/1980 Germany .

Primary Examiner-Stephen R. Crow Attorney, Agent, or Firm-Howard & Howard

#### ABSTRACT

An exercise device includes a pair of foot engaging links. The first end of each link is supported for rotational motion about a pivot axis and a second end of each foot link is guided in a reciprocal path of travel. The combination of these foot link motions permits the users foot to travel in an inclined, oval path of travel. This natural foot action exercises a large number of muscles through a wide range of motion.

7 Claims, 4 Drawing Sheets

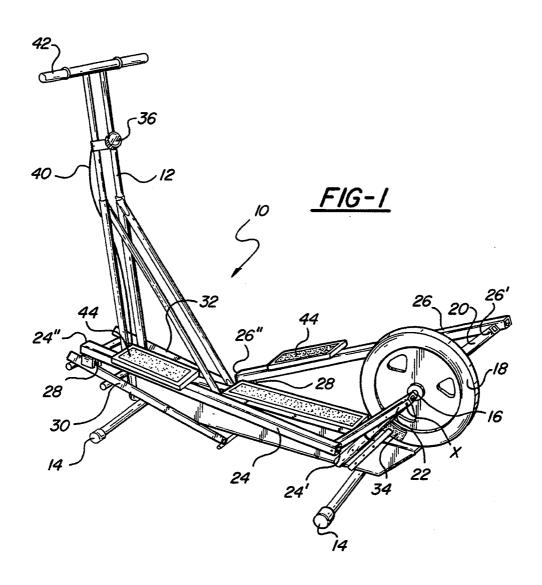


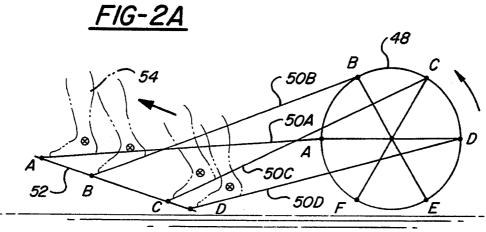
U.S. Patent

Jan. 24, 1995

Sheet 1 of 4

5,383,829





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Sheet 2 of 4

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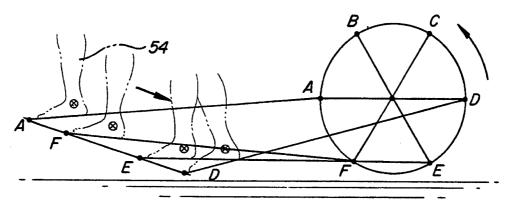
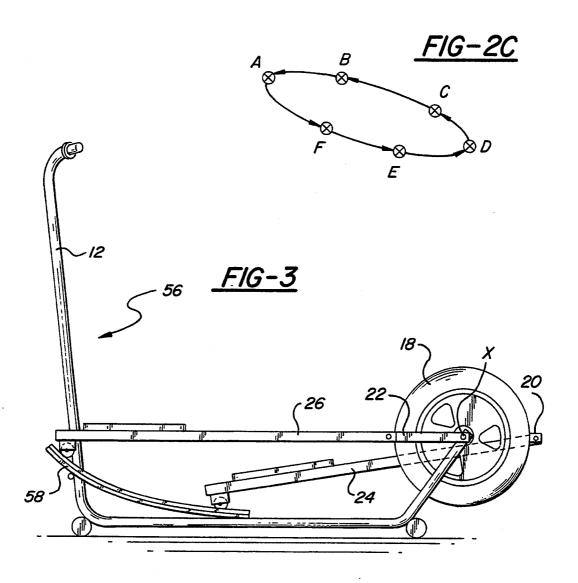


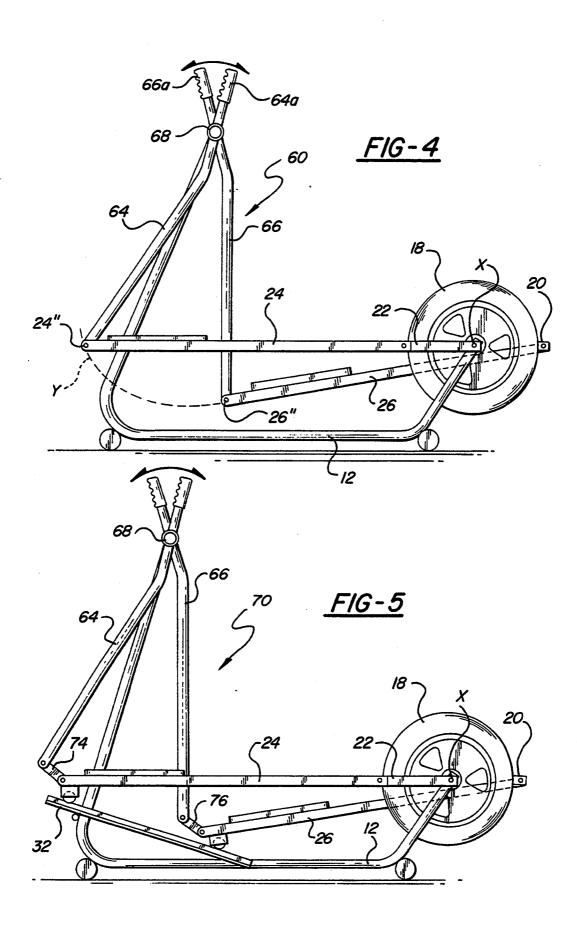
FIG-2B



U.S. Patent Jan. 24, 1995

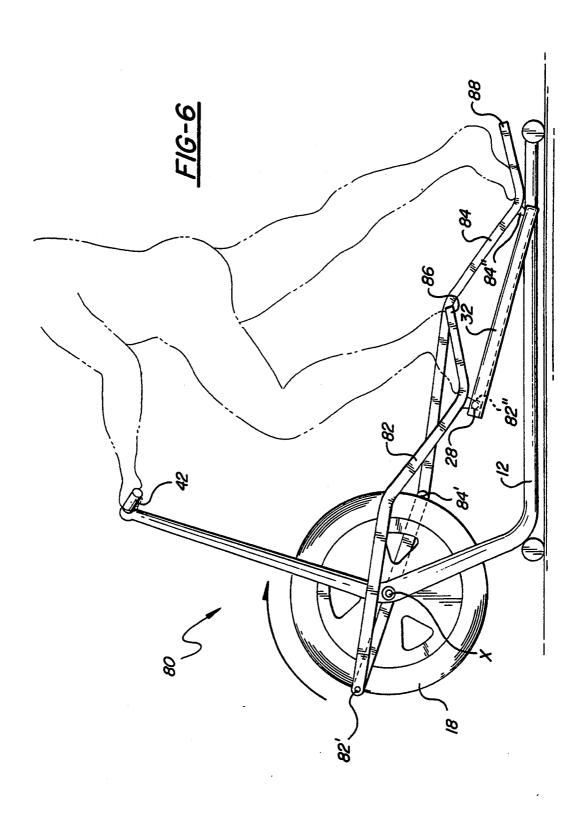
Sheet 3 of 4

5,383,829



U.S. Patent Jan. 24, 1995

Sheet 4 of 4 5,383,829



5,383,829

#### STATIONARY EXERCISE DEVICE

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This application is a continuation of application Ser. No. 07/953,897, filed Sep. 30, 1992, now U.S. Pat. No. 5 and description which follow. 5,242,343.

#### FIELD OF THE INVENTION

This invention relates generally to exercise equipment. More specifically, the invention relates to a sta- 10 tionary exercise device for simulating running and stepping motions.

#### BACKGROUND OF THE INVENTION

Because of a growing appreciation for the benefits of 15 regular exercise; and because constraints of time and space prevent many persons from indulging in activities such as running, swimming and walking, the market for exercise equipment is rapidly increasing. It is generally desirable to exercise a number of different muscles over 20 a fairly large range of motion so as to provide for even physical development and a maximum level of aerobic exercise. It is further desirable that exercise equipment provide a smooth, relatively natural motion so as to avoid jarring or irregular strains which can damage muscles and joints. It is also desirable that exercise equipment be relatively easy to use and of simple, low cost construction.

While a number of different exercise systems are known in the prior art, such systems suffer from a number of shortcomings which limit their utility. Stationary bicycles are widely used; however, they are employed in a sitting position and consequently, the number of motion provided by a stationary bicycle is fairly limited. Stationary devices for simulating cross country skiing are also in widespread use. While these systems exercise more muscles than do stationary bicycles, the relatively flat, shuffling foot motion provided thereby does not 40 invention; adequately exercise all of the leg muscles through a wide range of motion. Stair climbing equipment also exercises more muscles than do stationary bicycles: however, the rather limited up and down motion prolarge range of motion. Treadmills and the like permit walking or jogging in a relatively limited area; however, they can be quite jarring to knee and ankle joints, and many users find it difficult to maintain balance on a treadmill.

U.S. Pat. No. 4,720,093 shows a climbing type exerciser. U.S. Pat. No. 4,509,742 shows a stationary bicycle which provides for arm motion. U.S. Pat. No. 2,603,486 shows a bicycle type exerciser providing for combining arm and leg motions. U.S. Pat. No. 5,039,088 shows 55 of the present invention. another bicycle type exerciser providing for hand motion.

Despite the large number of exercise devices known in the prior art there is still a need for an exercise device which is simple to manufacture and use and which pro- 60 vides for a smooth, natural action and which exercises a relatively large number of muscles through a large range of motion. The exercise device of the present invention, as will be described herein below, provides for a smooth stepping-running motion which exercises a 65 user's legs more fully than cycling or skiing devices. The device of the present invention may also be employed to provide arm and shoulder motions. The

2 smooth action of the device prevents trauma to joints and muscles.

These and other advantages of the present invention will be readily apparent from the drawings, discussion

#### BRIEF DESCRIPTION OF THE INVENTION

There is disclosed herein an exercise device which comprises a frame having a fixed pivot axis defined thereon. The device includes a first and second foot link each having a first and a second end. The device includes a coupling member associated with the first end of each foot link for pivotally coupling the first end to the pivot axis at a predetermined distance therefrom so that the first end of each foot link travels in an arcuate path of travel about the pivot axis. The device also includes a first and second guide member, each operable to engage the second end of a respective one of the foot links and to direct the second end along a preselected, reciprocating path of travel as the first end of the link travels along the arcuate path. In particular embodiments, the coupling member may comprise a bell crank or a flywheel employed either singly or in combination. The device may include braking means for increasing drag of the system to thereby increase the level of exercise required. The guide member may comprise a track which engages and directs the foot links, or it may comprise a pair of arms which are pivotally attached to the frame and to the second end of each foot link so as 30 to permit the ends of the foot links to swing along in said reciprocal path of travel.

# BRIEF DESCRIPTION OF THE DRAWINGS

muscles exercised is small. Furthermore, the range of 35 the exercise device structured in accord with the principles of the present invention;

FIG. 2a is a schematic depiction of the path of travel of a user's foot during the forward and upward portion of the operational cycle of the apparatus of the present

FIG. 2b is a schematic depiction of the rearward and downward path of travel of the user's foot in the operational cycle of the present invention;

FIG. 2c is an illustration of the oval path of travel vided thereby does not exercise leg muscles through a 45 transversed by the foot of a person using the exercise device of the present invention;

FIG. 3 is a side elevational view of another embodiment of a the apparatus structured in accord with the principles of the present invention;

FIG. 4 is a side elevational view of yet another embodiment of the present invention;

FIG. 5 is a side elevational view of a fourth embodiment of the present invention; and

FIG. 6 is another embodiment of the exercise device

#### DETAILED DESCRIPTION OF THE **INVENTION**

Referring now to FIG. 1, there is shown a first embodiment of an exercise device structured in accord with the principles of the present invention. The exerciser includes a frame 12 having a pair of legs 14 disposed to support the frame 12 on a floor or other such surface. The frame 12 has a pivot axis, X, defined therein, as for example by a shaft 16 passing through, and supported by the frame 12.

In the illustrated embodiment, the shaft 16 has a flywheel 18 supported thereupon for rotation about the

pivot axis X. The apparatus further includes a first and second bell crank 20, 22 pivotally mounted for rotation about the axis X. The apparatus further includes a first and a second foot links, 24, 26 respectively. The foot links 24, 26 are generally elongated members having a 5 first end 24', 26' respectively, pivotally connected to the coupling member, (in this instance the bell cranks 22,20) in such a manner so as to permit travel of the first ends 24' 26' of the foot links 24 and 26 in an arcuate path of travel about the pivot axis X at a predetermined length 10 corresponding to the length of the bell cranks 20, 22. Within the context of this application, "arcuate" shall refer to a circular oval or other such closed, curved path of travel.

A second end 24", 26" of the foot links 24 and 26 15 respectively terminate in rollers 28 which engage tracks 30, 32. The tracks 30, 32 direct the second end 24", 26" of the foot links 24, 26 in a reciprocal path of travel as the first ends 24', 26' of the links 24, 26 travel about the pivot axis X. Within the context of the this application, 20 a "reciprocal" path of travel is meant to define any back and forth path of travel which is repetitively traversed by the end of the foot link and includes a generally linear path of travel as is provided by the flat track 28. 32 of the FIG. 1 embodiment as well as curved paths of 25 travel provided by other embodiments shown herein.

The apparatus of the FIG. 1 embodiment may further include a friction brake 34 associated with the flywheel 18 for purposes of imposing drag on the wheel so as to increase the amount of exercise provided by the appara- 30 tus 10. The friction brake 34 may be adjusted by an adjustment knob 36 operating through a flexible cable 40 upon the friction pad assembly 34, as is well known to those of skill in the art. Other types of braking device such as a magnetic brake and the like may be similarly 35 employed. In the illustrated embodiment, the frame 12 includes a hand grip 42 mounted on an upright portion of the frame 12. The FIG. 1 embodiment 10 further includes foot retaining pads 44 which preferably comhigh coefficient of friction material such as rubber.

The interaction of the foot links 24 and 26 with the bell cranks 20 and 22 and with the tracks 28 and 32 provide for a unique and smooth foot motion, as will be explained with reference to FIGS. 2a-c. Referring now 45 to FIG. 2a, there is shown a stylized depiction of the apparatus of the present invention in use. Illustrated therein is a wheel 48, showing a foot link 50 having a first end coupled thereto and a second end engaged with a track 52. Rotation of the wheel 48 will reposition 50 the foot link 50 along the track, and as illustrated, the orientation of the track and foot at four locations d, c, b and a, corresponding to the forward and upward motion of the foot, 54 are illustrated. It will be noted that moves forward and that the angle formed at the ankle varies.

Referring now to FIG. 2b, there is shown the same arrangement of parts depicting the subsequent rearward and downward motion of the foot 54. Again, the angle 60 fied to provide an altered range of motion. between the foot and leg varies as the rearward and downward motion takes place. It is notable that the path of travel of the foot 54 is not the same for the forward and reverse motion. FIG. 2c illustrates the oval path as traversed by the user's foot during the cycle of this 65 apparatus. This compound motion is very smooth and natural; consequently, it avoids jarring as well as simple, repetitive back and fourth motion which can overstress

particular muscles while neglecting others. Smooth and pleasing motion provided by this particular mechanical arrangement encourages use of the equipment.

Referring now to FIG. 3, there is shown another embodiment of exercise device 56 structured in accord with the principles of the present invention. The device 56 of FIG. 3 is generally similar to that of FIG. 1, and accordingly like structures will be referred to by like reference numerals.

The exercise device 56 includes a frame 12 and foot links 26 as generally described herein above. The device also includes tracks for guiding the foot links, and one track 58 is visible in this drawing. The tracks of the FIG. 3 embodiment differ from those of FIG. 1 insofar as they are somewhat curved in an upward direction. It has been found that the curve provides for a more gradual rise in the elevation of the foot links. In accord with the present invention, the tracks still guide the foot links 24, 26 in a reciprocal path of travel.

The device 56 of FIG. 3 further differs from that of FIG. 1 insofar as the bell cranks 20,22 are somewhat shorter. In other instances the first end of the foot links 24, 26 are pivotally connected directly to the flywheel which functions to couple the foot link to the pivot axis X to permit rotation thereabout. In such instance, the flywheel is preferably a double wheel supported for rotation about a central axis. It will be appreciated that various mechanical arrangements may be employed to couple the foot links 24, 26 to the pivot axis X and such variations may include a larger flywheel, a smaller flywheel or may eliminate the flywheel entirely provided the foot links are coupled so as to permit an arcuate path of travel of the first end of each foot link about the pivot axis X.

Referring now to FIG. 4 there is shown yet another embodiment of exercise device 60 structured in accord with the principles of the present invention. Again, like elements will be indicated by like reference numerals. The exercise device 60 of the FIG. 4 embodiment difprise pads formed at least partially of a relatively soft, 40 fers from the previous embodiments insofar as it does not include a track for guiding the second ends 24", 26" of the foot links 24, 26 along the reciprocal path of travel. In this embodiment, the guide member function is provided by a pair of arm links 64 and 66.

Each arm link 64, 66 is pivotally supported by the frame 12 at support point 68. The arm links 64, 66 are also pivotally coupled to the ends 24", 26" of the foot links 24, 26. As indicated by phantom line Y, pivoting of the arm links 64, 66 about the support point 68 causes the second ends 24", 26" of the foot links 24, 26 to reciprocate along the curved path Y.

As illustrated in FIG. 4, the arm links 64,66 also include handle portions 64a, 66a associated therewith. These handle portions may be configured to be gripped as the position changes from d to a the foot 54 rises and 55 by a user and, during the operation of the device they also reciprocate, thereby providing upper body exercise. It will be appreciated that in some embodiments, the handle portions 64a, 66a may be eliminated. In other instances they may be enlarged, bent or otherwise modi-

> Referring now to FIG. 5 there is shown another embodiment of exercise device 70, structured in accord with the principles of the present invention. The device 70 is generally similar to those previously shown and like structures will be referred to by like reference numerals. The exercise device 70 of FIG. 5 is generally similar to that of FIG. 1 insofar as it includes a frame 12 having a pivot axis X which supports an assembly of

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foot links 24, 26 and associated bell cranks 20, 22 for rotation thereabout. The embodiment also includes a flywheel 18 and a series of tracks, one of which, 32, is visible in this drawing. As in the FIG. 1 embodiment, the tracks function as guide members for directing the 5 ends of the foot links 24, 26 in a reciprocal path of travel. The FIG. 5 embodiment 70, also includes a pair of arm links 64, 66 associated with the foot links 24, 26. In this embodiment, in contrast to the FIG. 4 embodiment, the arm links 64,66 do not function as guide mem- 10 bers but merely serve to provide upper body exercise. Since the track is straight, the arm links 64,66 are connected to the corresponding foot links 24, 26 by a pair of connecting links 74, 76 in order to accommodate their respective paths of travel. In accord with another varia- 15 tion of the present invention, the track of the FIG. 5 embodiment may be made curved, so as to correspond to the motion of the arm links 64, 66 about the support point 68, and in such instance the connecting links 74, 76 may be eliminated. In this particular embodiment, the 20 arm links 64, 66 will also function, to some degree, to guide the foot links 24, 26.

Referring now to FIG. 6, there is shown yet another embodiment of an exercise device structured in accord with the principles of the present invention. The device 25 80 of FIG. 6 is generally similar in construction and operation to the preceding embodiments; however, the location of the flywheel 18 and track, 32 are reversed with regard to the position of the user.

As in the preceding embodiment, the exercise device 30 80 includes a frame 12 having a pivot axis X defined thereon. A flywheel 18 is supported for rotation about the pivot axis and the device 80 further includes a pair of foot links 82, 84, each of which has a first end 82', 84' in an arcuate path about the pivot axis X. The foot links also include second ends 82", 84" which engage tracks As illustrated, end 82" engages track 32 via a roller 28.

The placement of the foot engaging portion of the foot links 82, 84 differs in the FIG. 6 embodiment from 40 that of the preceding embodiments. The FIG. 6 embodiment includes foot pads 86, 88 which are disposed so as to project from the ends 82" 84" of the foot links 82, 84. It will also be noted that in this embodiment, the foot links are somewhat bent. Finally, the device 80 includes 45 a handle grip portion 42 as in various other preceding embodiments.

Other modifications and variations of the FIG. 6 embodiment are possible within the scope of the present invention. As illustrated, the foot links 82, 84 are cou- 50 pled to the flywheel by bell cranks 20,22 which pass to the interior of the frame 12. The cranks may pass to the outside of the frame as in the FIG. 1 embodiment. As previously noted, the flywheel and/or bell cranks may be eliminated in some instances.

The principles of the present invention may be adapted to the construction of a variety of other embodiments. As already noted, the size and location of the flywheel may be varied and in some instances, the flywheel may be eliminated or replaced by a series of 60 pulleys or similar structures. The shape and position of the guide members may be similarly varied and auxiliary structures such as braking devices, speedometers, odometers and the like may be incorporated in the device. Accordingly, it will be appreciated that the fore- 65 going drawings, discussion and description are merely meant to illustrate particular embodiments of the invention and are not meant to be limitations upon the prac-

tice thereof. It is the following claims, including all equivalents, which define the scope of the invention.

- 1. An exercise device comprising:
- a frame having a fixed pivot axis defined thereon, said frame configured to be supported on a floor;
- a first and a second foot link, each having a foot engaging portion;
- a first and a second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said foot link travels in an arcuate path about said
- a first and a second guide member, each guide member being supported by said frame and operative to engage a respective one of said foot links and to direct a second end of said foot link along a preselected, reciprocating path of travel, which is generally inclined with respect to said floor, as the first end of said foot link travels along said arcuate path; so that when said exercise device is in use, and when the second end of one of said foot links travels from a point at a lower end of said inclined path. upward along said inclined path, the heel portion of a user's foot associated therewith initially rises at a faster rate than the toe portion, and when the second end of said foot link travels downward, along said inclined, reciprocating path of travel, the heel portion of the user's foot initially lowers at a faster rate than the toe portion.
- 2. An exercise device as in claim 1, wherein said coupling member includes a bell crank having a first end which pivotally engages the first end of one of said pivotally affixed to the flywheel 18, so that they travel 35 foot links and a second end which is pivotally affixed to said pivot axis.
  - 3. An exercise device as in claim 1, wherein the foot engagement portion of each foot link is disposed between the first and second ends of said foot link and is configured so that the user's foot is disposed with the toe portion thereof pointing toward the second end when the device is in use, said exercise device being further configured so that when it is in use, the first end of each foot link travels in a counterclockwise arcuate path about said pivot axis, when viewed from the user's left side.
  - 4. An exercise device as in claim 1, further including a flywheel disposed for rotation about said fixed pivot
  - 5. An exercise device as in claim 1, wherein said first and second guide members each comprise a track.
  - 6. An exercise device as in claim 5 wherein said tracks are straight tracks.
    - 7. An exercise device comprising:
    - a frame having a pivot axis defined thereon, said frame configured to be supported on a floor;
    - a first and a second foot link, each having a foot engaging portion;
    - a first and second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said foot link travels in an arcuate path about said
    - a guide supported by said frame and operative to engage said foot links and to direct a second end of each foot link along a preselected, reciprocating path of travel as the first end of said foot link trav-

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els along said arcuate path; so that when said exercise device is in use, and when the second end of one of said foot links travels from a point at a rearward end of said reciprocating path, forward along said path, the heel portion of a user's foot associated therewith initially rises at a faster rate than the

toe portion, and when the second end of said foot link travels rearward along said reciprocating path of travel from a forward end thereof, the heel portion of the user's foot initially lowers at a faster rate than the toe portion.

# **EXHIBIT B**

(10) **Number:** 

(45) Certificate Issued:

#### US005383829C1

# (12) **REEXAMINATION CERTIFICATE** (4539th)

# **United States Patent**

# Miller

(54) STATIONARY EXERCISE DEVICE

# (75) Inventor: Larry Miller, 1628 Treeside Dr.,

(73) Assignee: Larry Miller, Rochester, MI (US)

Rochester, MI (US) 48307

#### Reexamination Request:

No. 90/004,848, Nov. 25, 1997 No. 90/004,999, May 15, 1998 No. 90/005,030, Jul. 2, 1998 No. 90/005,450, Aug. 13, 1999 No. 90/005,561, Nov. 12, 1999

#### **Reexamination Certificate for:**

Patent No.: 5,383,829
Issued: Jan. 24, 1995
Appl. No.: 08/106,378
Filed: Aug. 13, 1993

(\*) Notice: This patent is subject to a terminal dis-

claimer.

#### Related U.S. Application Data

(63)	Continuation of application No. 07/953,897, filed on Sep.
	30, 1992, now Pat. No. 5,242,343.

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(51)	Int. Cl. <sup>7</sup>	<b>A63B 69/16</b> ; A63B 22/04
(52)	U.S. Cl	
(58)	Field of Search	482/51–53, 57,

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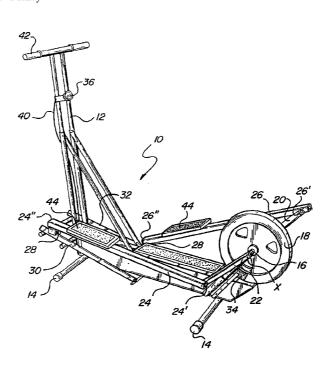
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Primary Examiner—S. R. Crow

#### (57) ABSTRACT

An exercise device includes a pair of foot engaging links. The first end of each link is supported for rotational motion about a pivot axis and a second end of each foot link is guided in a reciprocal path of travel. The combination of these foot link motions permits the users foot to travel in an inclined, oval path of travel. This natural foot action exercises a large number of muscles through a wide range of motion.



<sup>\*</sup> cited by examiner

# 1 REEXAMINATION CERTIFICATE ISSUED UNDER 35 U.S.C. 307

THE PATENT IS HEREBY AMENDED AS INDICATED BELOW.

Matter enclosed in heavy brackets [] appeared in the patent, but has been deleted and is no longer a part of the patent; matter printed in italics indicates additions made to the patent.

# AS A RESULT OF REEXAMINATION, IT HAS BEEN DETERMINED THAT:

The patentability of claims 1-6 is confirmed.

Claim 7 is determined to be patentable as amended.

New claims 8-75 are added and determined to be patentable.

- 7. An exercise device comprising:
- a frame having a pivot axis defined thereon, said frame configured to be supported on a floor;
- a first and a second foot link, each having a foot engaging portion;
- a first and second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said foot link travels in an arcuate path about said axis;
- a guide supported by said frame and operative to engage said foot links and to direct a second end of each foot link along a preselected, reciprocating path of travel as the first end of said foot link travels along said arcuate path; so that when said exercise device is in use, and when the second end of one of said foot links travels from a point at a rearward end of said reciprocating path, forward along said path, the heel portion of a user's foot associated therewith initially rises at a faster rate than the toe portion, and when the second end of said foot link travels rearward along said reciprocating path of travel from a forward end thereof, the heel portion of the user's foot initially lowers at a faster rate than the toe portion, and so that the heel portion of said user's foot travels in a path which does not encompass said pivot axis.
- 8. The exercise device of claim 7, said frame further comprising a handgrip manually graspable by the user during exercise.
- 9. The exercise device of claim 7, further comprising a hand grip manually graspable by the user during exercise.
  - 10. The exercise device according to claim 9:
  - said frame comprising a base portion configured to rest on the floor; and
  - said handgrip mounted on a portion of said frame extending upwardly from said base portion.
  - 11. The exercise device according to claim 9:
  - said frame comprising a base portion configured to rest on the floor and a post portion extending upwardly from 60 the base portion; and
  - said handgrip coupled to the post portion.
- 12. The exercise device according to claim 11, further comprising means for pivotally mounting the hand grip on said post portion of said frame.
- 13. The exercise device according to claim 7, further comprising a flywheel operably coupled with said pivot axis.

- 14. The exercise device according to claim 7, said foot engaging portion comprises a platform having a width wider than the adjacent portion of the foot link to support the foot of the user standing on the foot link during exercise.
- 15. The exercise device according to claim 7, wherein said guide includes at least one guideway supported by the frame to engage and direct the second ends of the foot links for travel along said guideway.
- 16. The exercise device according to claim 7, wherein said guide includes a roller engaged with the second end of the foot links to support the foot links along their preselected path of travel.
- 17. The exercise device according to claim 7, wherein said guide comprises arm links, said arm links having a first portion coupled to a corresponding foot link and a second distal portion coupled to said frame.
- 18. The exercise device according to claim 17, wherein the second portions of the arm links are coupled to the frame at an elevation above the location at which the first portions of the arm links are coupled to the foot links.
  - 19. The exercise device according to claim 18:
  - said frame further comprising an upwardly extending post; and,
  - the second portions of the arm links are coupled to the post.
  - 20. The exercise device of claim 18, further comprising handgrips associated with the arm links.
    - 21. The exercise device according to claim 17:
  - said frame comprising an upwardly extending post; and said second portions of the arm links are pivotally coupled to the post.
  - 22. The exercise device of claim 17, further comprising manually graspable handgrips associated with the arm links
  - 23. The exercise device of claim 22, wherein the hand-grips move in coordination with the arm links.
    - 24. The exercise device according to claim 7:
    - said frame further comprising an upwardly extending post; and,
    - said guide supported by said post.
  - 25. An aerobic exercise device physically powered by the user, comprising:
    - a frame having a pivot axis defined thereon, said frame configured to be supported on a floor;
    - a first and a second foot link, each having a foot-engaging portion:
    - a first and second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said foot link travels in an arcuate path about said axis; and
    - a guide supported by said frame and operative to engage said foot links and to direct a second end of each foot link along a preselected, reciprocating path of travel as the first end of said foot link travels along said arcuate path;
    - whereby when said exercise device is in use, and when the second end of one of said foot links travels from a point at a rearward end of said reciprocating path, forward along said path, the heel portion of a user=s foot associated therewith initially rises at a faster rate than the toe portion, and when the second end of said foot link travels rearward along said reciprocating path of travel from a forward end thereof, the heel portion of the user=s foot initially lowers at a faster rate than the

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toe portion such that use of the exercise device, without motorized assistance, produces aerobic activity comprising natural foot motion.

26. The exercise device of claim 25, said guide further comprises a handgrip graspable by the user during exercise.  $_5$ 

- 27. The exercise device of claim 25, further comprising a hand grip manually graspable by the user during exercise. 28. The exercise device according to claim 27:
  - said frame comprising a base portion configured to rest on the floor; and
  - said handgrip mounted on a portion of said frame extending upwardly from said base portion.
  - 29. The exercise device according to claim 27:
  - said frame comprising a base portion configured to rest on the floor and a post portion extending upwardly from the base portion; and

said handgrip coupled to the post portion.

- 30. The exercise device according to claim 29, further comprising means for pivotally mounting the hand grip on said post portion of said frame.
- 31. The exercise device according to claim 25, further comprising a flywheel operably coupled with said pivot axis.
- 32. The exercise device according to claim 25, said foot engaging portion comprises a platform having a width wider than the adjacent portion of the foot link to support the foot of the user standing on the foot link during exercise.
- 33. The exercise device according to claim 25, said guide includes at least one guideway supported by the frame to engage and direct the second end portions of the foot links for travel along said guideway.
- 34. The exercise device according to claim 25, said guide includes a roller engaged with the second end portions of the foot links to support the foot links along their preselected path of travel.
- 35. The exercise device according to claim 25, said guide comprises arm links, said arm links having a first portion coupled to a corresponding foot link and a second distal portion coupled to said frame.
- 36. The exercise device according to claim 35, the second portion of the arm links are coupled to the frame at an elevation above the location at which the first portions of the arm links are coupled to the foot links.
  - 37. The exercise device according to claim 36:
  - said frame further comprising an upwardly extending post; and,
  - the second portions of the arm links are coupled to the post.
- 38. The exercise device of claim 36, further comprising handgrips associated with the swing arms.
- 39. The exercise device according to claim 35, said frame comprising an upwardly extending post, and said second portions of the arm links are pivotally connected to the post.
- 40. The exercise device of claim 35, further comprising manually graspable handgrips associated with the swing
- 41. The exercise device of claim 40, wherein the hand-grips move in coordination with the arm links.
  - 42. The exercise device according to claim 25:
  - said frame further comprising an upwardly extending post; and,
  - said guide supported by said post.
- 43. An aerobic exercise device physically powered by the user, comprising:
  - a frame having a pivot axis defined thereon, said frame configured to be supported on a floor;
  - handgrips manually graspable by the user during exercise:

- a first and a second foot link, each having a foot-engaging
- a first and second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said foot link travels in an arcuate path about said axis; and
- a guide supported by said frame and operative to engage said foot links and to direct a second end of each foot link along a preselected, reciprocating path of travel as the first end of said foot link travels along said arcuate path;
- whereby when said exercise device is in use, and when the second end of one of said foot links travels from a point at a rearward end of said reciprocating path, forward along said path, the heel portion of a user=s foot associated therewith initially rises at a faster rate than the toe portion, and when the second end of said foot link travels rearward along said reciprocating path of travel from a forward end thereof, the heel portion of the user=s foot initially lowers at a faster rate than the toe portion to simulate a natural gait and such that use of the exercise device, without motorized assistance, produces aerobic activity.
- 44. The exercise device according to claim 43:
- said frame comprising a base portion configured to rest on the floor and a post portion extending upwardly from the base portion; and
- said hand grips coupled to the post portion.
- 45. The exercise device according to claim 44, further comprising means for pivotally mounting the hand grips on said post portion.
- 46. The exercise device according to claim 43, further comprising a flywheel operably coupled with said pivot axis.
- 47. The exercise device according to claim 43, said foot engaging portion comprises a platform having a width wider than the adjacent portion of the foot link to support the foot of the user standing on the foot link during exercise.
- 48. The exercise device according to claim 43, wherein said guide includes at least one guideway supported by the frame to engage and direct the second end portions of the foot links for travel along said guideway.
- 49. The exercise device according to claim 43, said guide includes a roller engaged with the second end portions of the foot links to support the foot links along their preselected path of travel.
  - 50. The exercise device according to claim 43, said guide comprising arm links, said arm links having a first portion coupled to a corresponding foot link and a second distal portion coupled to said frame.
  - 51. The exercise device according to claim 50, wherein the second portion of the arm links are coupled to the frame at an elevation above the location at which the first portions of the arm links are coupled to the foot links.
  - 52. The exercise device according to claim 50, said frame comprising an upwardly extending post, and said second portions of the arm links are pivotally connected to the post.
    - 53. The exercise device according to claim 43:
    - said frame further comprising an upwardly extending post; and
    - said guide supported by said post.

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- 54. An exercise device comprising:
- a frame having a fixed pivot axis defined thereon, said frame configured to be supported on a floor;
- a first and a second foot link, each having a foot-engaging portion;

a first and a second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said foot link travels in an arcuate path about said axis;

a first and a second guide member, each guide member being supported by said frame and operative to engage a respective one of said foot links and to direct a second end of said foot link along a preselected, reciprocating path of travel, which is generally inclined with respect to said floor, as the first end of said foot link travels along said arcuate path; so that when said exercise device is in use, and when the second end of said foot links travels from a point at a lower end of said inclined path, upward along said inclined path, the heel portion 15 of a user's foot associated therewith initially rises at a faster rate than the toe portion, and when the second end of said foot link travels downward, along said inclined, reciprocating path of travel, the heel portion of the user's foot initially lowers at a faster rate than 20 the toe portion, and so that the ankle portion of said user's foot travels in a path which is always outside of said arcuate path.

55. The exercise device of claim 54, wherein the entirety of said user's foot travels in said path which is always <sup>25</sup> outside of the arcuate path.

56. The exercise device of claim 54, wherein said first and second guide members each include a roller, engageable with its respective foot link to support said foot link along its preselected path of travel.

57. The exercise device of claim 54, wherein said first and second guide members each comprise an arm link having a first portion coupled to a respective foot link, and a second portion, distal from said portion, coupled to said frame.

58. The exercise device of claim 54, wherein said first and <sup>35</sup> second coupling members couple their respective foot links to said pivot axis at a fixed distance therefrom.

- 59. An exercise device comprising:
- a frame having a pivot axis defined thereon, said frame configured to be supported on a floor;
- a first and a second foot link, each having a foot-engaging portion;
- a first and second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said foot link travels in an arcuate path about said axis; with its respective foot link preselected path of travel.

  66. The exercise device of second guide members each first portion coupled to a new first portion coupled
- a guide supported by said frame and operative to engage said foot links and to direct a second end of said foot 50 link along a preselected, reciprocating path of travel as the first end of said foot link travels along said arcuate path; so that when said exercise device is in use, and when the second end of one of said foot links travels from a point at a rearward end of said reciprocating 55 path, forward along said path, the heel portion of a user's foot associated therewith initially rises at a faster rate than the toe portion, and when the second end of said foot link travels rearward along said reciprocating path of travel from a forward end thereof, 60 the heel portion of the user's foot initially lowers at a faster rate than the toe portion and so that the ankle portion of said user's foot travels in a path which is always outside of said arcuate path.

60. The exercise device of claim 59, wherein the entirety 65 of said user's foot travels in said path which is always outside of the arcuate path.

61. The exercise device of claim 59, wherein said guide includes at least one roller engageable with said foot links to support the foot links as they travel along their preselected path.

62. The exercise device of claim 59, wherein said guide comprises first and second arm links, each arm link having a first portion coupled to a corresponding foot link, and a second portion distal from said first portion, coupled to said frame.

63. The exercise device of claim 59, wherein said first and second coupling members couple their respective foot links to said pivot axis at a fixed distance therefrom.

64. An exercise device comprising:

- a frame having a fixed pivot axis defined thereon, said frame configured to be supported on a floor;
- a first and a second foot link, each having a foot-engaging portion:
- a first and a second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said foot link travels in an arcuate path about said axis;
- a first and a second guide member, each guide member being supported by said frame and operative to engage a respective one of said foot links and to direct a second end of said foot link along a preselected, reciprocating path of travel, which is generally inclined with respect to said floor, as the first end of said foot link travels along said acruate path; so that when said exercise device is in use, and when the second end of said foot links travels from a point at a lower end of said inclined path, upward along said inclined path, the heel portion of a user's foot associated therewith initially rises at a faster rate than the toe portion, and when the second end of said foot link travels downward, along said inclined, reciprocating path of travel, the heel portion of the user's foot initially lowers at a faster rate than the toe portion, and so that the ankle portion of said user's foot travels in a path which does not cross a vertical plane passing through said pivot axis.

65. The exercise device of claim 64, wherein said first and second guide members each include a roller, engageable with its respective foot link to support said foot link along its preselected path of travel

66. The exercise device of claim 64, wherein said first and second guide members each copmrise an arm link having a first portion coupled to a respective foot link, and a second portion, distal from said portion, coupled to said frame.

67. The exercise device of claim 64, wherein said first and second coupling members couple their respective foot links to said pivot axis at a fixed distance therefrom.

68. An exercise device comprising:

- a frame having a pivot axis defined thereon, said frame configured to be supported on a floor;
- a first and a second foot link, each having a foot-engaging portion;
- a first and second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said foot link travels in an arcuate path about said axis;
- a guide supported by said frame and operative to engage said foot links and to direct a second end of said foot link along a preselected, reciprocating path of travel as the first end of said foot link travels along said arcuate path; so that when said exercise device is in use, and

a first and a second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said

foot link travels in an arcuate path about said axis;

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- a first and a second guide member, each guide member being supported by said frame and operative to engage a respective one of said foot links and to direct a second end of said foot link along a preselected, reciprocating path of travel, which is generally inclined with respect to said floor, as the first end of said foot link travels along said arcuate path; so that when said exercise device is in use, and when the second end of said foot links travels from a point at a lower end of said inclined path, upward along said inclined path, the heel portion 15 of a user's foot associated therewith initially rises at a faster rate than the toe portion, and when the second end of said foot link travels downward, along said inclined, reciprocating path of travel, the heel portion of the user's foot initially lowers at a faster rate than 20 the toe portion, and so that the ankle portion of said user's foot travels in a path which is always outside of said arcuate path.
- 55. The exercise device of claim 54, wherein the entirety of said user's foot travels in said path which is always <sup>25</sup> outside of the arcuate path.
- 56. The exercise device of claim 54, wherein said first and second guide members each include a roller, engageable with its respective foot link to support said foot link along its preselected path of travel.
- 57. The exercise device of claim 54, wherein said first and second guide members each comprise an arm link having a first portion coupled to a respective foot link, and a second portion, distal from said portion, coupled to said frame.
- 58. The exercise device of claim 54, wherein said first and <sup>35</sup> second coupling members couple their respective foot links to said pivot axis at a fixed distance therefrom.
  - 59. An exercise device comprising:
  - a frame having a pivot axis defined thereon, said frame configured to be supported on a floor;
  - a first and a second foot link, each having a foot-engaging portion;
  - a first and second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said foot link travels in an arcuate path about said axis; with its respective foot link preselected path of travel.

    66. The exercise device of second guide members each first portion coupled to a new first portion coupled
  - a guide supported by said frame and operative to engage said foot links and to direct a second end of said foot 50 link along a preselected, reciprocating path of travel as the first end of said foot link travels along said arcuate path; so that when said exercise device is in use, and when the second end of one of said foot links travels from a point at a rearward end of said reciprocating 55 path, forward along said path, the heel portion of a user's foot associated therewith initially rises at a faster rate than the toe portion, and when the second end of said foot link travels rearward along said reciprocating path of travel from a forward end thereof, 60 the heel portion of the user's foot initially lowers at a faster rate than the toe portion and so that the ankle portion of said user's foot travels in a path which is always outside of said arcuate path.
- 60. The exercise device of claim 59, wherein the entirety 65 of said user's foot travels in said path which is always outside of the arcuate path.

- 61. The exercise device of claim 59, wherein said guide includes at least one roller engageable with said foot links to support the foot links as they travel along their preselected path.
- 62. The exercise device of claim 59, wherein said guide comprises first and second arm links, each arm link having a first portion coupled to a corresponding foot link, and a second portion distal from said first portion, coupled to said frame.
- 63. The exercise device of claim 59, wherein said first and second coupling members couple their respective foot links to said pivot axis at a fixed distance therefrom.
  - 64. An exercise device comprising:
  - a frame having a fixed pivot axis defined thereon, said frame configured to be supported on a floor;
  - a first and a second foot link, each having a foot-engaging portion:
  - a first and a second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said foot link travels in an arcuate path about said axis;
  - a first and a second guide member, each guide member being supported by said frame and operative to engage a respective one of said foot links and to direct a second end of said foot link along a preselected, reciprocating path of travel, which is generally inclined with respect to said floor, as the first end of said foot link travels along said acruate path; so that when said exercise device is in use, and when the second end of said foot links travels from a point at a lower end of said inclined path, upward along said inclined path, the heel portion of a user's foot associated therewith initially rises at a faster rate than the toe portion, and when the second end of said foot link travels downward, along said inclined, reciprocating path of travel, the heel portion of the user's foot initially lowers at a faster rate than the toe portion, and so that the ankle portion of said user's foot travels in a path which does not cross a vertical plane passing through said pivot axis.
- 65. The exercise device of claim 64, wherein said first and second guide members each include a roller, engageable with its respective foot link to support said foot link along its preselected path of travel
- 66. The exercise device of claim 64, wherein said first and second guide members each copmrise an arm link having a first portion coupled to a respective foot link, and a second portion, distal from said portion, coupled to said frame.
- 67. The exercise device of claim 64, wherein said first and second coupling members couple their respective foot links to said pivot axis at a fixed distance therefrom.
  - 68. An exercise device comprising:
  - a frame having a pivot axis defined thereon, said frame configured to be supported on a floor;
  - a first and a second foot link, each having a foot-engaging portion;
  - a first and second coupling member, each associated with a respective one of said foot links for pivotally coupling said foot link to said pivot axis at a predetermined distance therefrom so that a first end of said foot link travels in an arcuate path about said axis;
  - a guide supported by said frame and operative to engage said foot links and to direct a second end of said foot link along a preselected, reciprocating path of travel as the first end of said foot link travels along said arcuate path; so that when said exercise device is in use, and

# **EXHIBIT C**

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#### SETTLEMENT AGREEMENT-

This Settlement Agreement is entered into on this \_\_\_\_\_ day of February, 1998 (the "Effective Date") by and between Precor Incorporated ("Precor"), having a principal place of business in Bothell, Washington, Larry Miller ("Miller"), an individual having an address in Rochester, Michigan, and Keys Fitness Products, L.P. ("Keys"), having a principal place of business at 11220 Petal Street, Dallas, Texas (collectively, the "Parties").

### RECITALS

WHEREAS, Miller is the sole inventor of various inventions relating to stationary exercise equipment devices known as elliptical exercise devices that simulate running and stepping motions, and he has obtained numerous patents covering such devices, namely U.S. Patent Nos. 5,242,343; 5,383,829; 5,518,473; 5,562,574; and 5,577,985 (collectively, the "Miller Patents"); and

WHEREAS, Miller has exclusively licensed the Miller Patents to Precor pursuant to which Precor has the right to file and pursue suit against infringers of the Miller Patents and retain all recoveries and awards received; and

WHEREAS, on October 1, 1997, Keys filed a complaint in the United States District
Court for the Northern District of Texas at Dallas, Civil Action No. 3:97-CV-21416-T (the
"Texas Action") naming Precor as a defendant, alleging unfair competition and seeking a
declaratory judgment of noninfringement, invalidity and unenforceability of the Miller Patents,
which action has now been transferred to the Western District of Washington, Civil Action No. \_\_\_\_\_\_\_\_;
and

WHEREAS, on October 8, 1997, Precor filed a complaint in the U.S. District Court for the Western District of Washington, Civil Action No. C97-1608WLD (the "Washington Action") naming Keys as a defendant, and later filed an Amended Complaint naming Seattle Athletic & Exercise, Inc. and Macro Progress as additional defendants, alleging that the defendants had infringed U.S. Patent No. 5,383,829 (the "829 patent") by the manufacture and sale of an elliptical exercise machine called the "E-Trainer" as shown in Exhibit C attached; and

WHEREAS, the Parties desire to dismiss all claims or causes of action each has or could have asserted against the other in either the Texas or Washington Actions and to settle all remaining disputes between them.

WHEREFORE, in consideration of the mutual releases, promises, and benefits conferred under this Settlement Agreement, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

### 1. DISMISSAL OF THE WASHINGTON ACTION

Precor and Keys shall stipulate to the dismissal of all claims in the Washington Action against each other and against Seattle Athletic & Exercise, Inc., with prejudice, each party to bear its own costs and fees. The form of the Stipulation and Order of Partial Dismissal shall be substantially in accordance with Exhibit A to this Settlement Agreement, which Precor and Keys will instruct their respective counsel to execute and file with the Court. Notwithstanding anything in this Settlement Agreement to the contrary, the claims filed by Precor against Macro Progress in the Washington Action are not settled or released by this Settlement Agreement.

## 2. DISMISSAL OF TEXAS ACTION

Precor and Keys shall stipulate to the dismissal of all claims in the Texas Action, with prejudice, each party to bear its own costs and fees. The form of the Stipulated Motion of Dismissal shall be substantially in accordance with Exhibit B to this Settlement Agreement, which Precor and Keys will instruct their respective counsel to execute and file with the Washington court to which the case has been transferred.

# 3. LIQUIDATION OF ELLIPTICAL EXERCISERS AND NO FURTHER MANUFACTURE

Keys, including its directors, officers, agents, employees, parent companies and subsidiaries, agrees that as of the Effective Date it will not import, manufacture, have manufactured, offer for sale or sell any additional Keys E-Trainer units, except Keys will be permitted to liquidate its existing inventory of Keys E-Trainer units (approximately 6,000 units) on or before nine (9) months from the Effective Date. In addition, Keys, including its directors, officers, agents, employees, parent companies and subsidiaries, agrees that after the Effective Date it will not manufacture, use, offer for sale, sell or import any elliptical exercise device which infringes any claim of the '829 patent. Keys represents that it does not own or possess any molds, presses, blanks, forms and other devices used in the manufacture of the Keys E-Trainer. Further, Keys shall certify on or before nine (9) months from the Effective Date of this Settlement Agreement that all of the approximately 6,000 remaining Keys E-Trainer units have been sold or destroyed. Precor shall have the right to audit the pertinent records of Keys to confirm the accuracy of this certification.

#### 4. PAYMENT

Upon execution of this Settlement Agreement, Keys shall immediately pay to Precor the sum of Three Hundred Thousand Dollars (\$300,000) U.S. No other payments shall be due or owing from Keys to either Precor or Miller with respect to this Settlement Agreement or the Miller Patents. The amount of the payment by Keys to Precor shall remain strictly confidential and shall not be divulged by any Party or their representatives, except to their business and legal advisors (which shall be informed of this confidentiality obligation), taxing authorities, or upon order of a court of competent jurisdiction. The Parties acknowledge that the amount of Keys' payment hereunder does not fully satisfy Precor's claimed damages, the full satisfaction of which Precor may seek to recover from Macro Progress in the Washington Action.

# 5. ACKNOWLEDGMENT OF VALIDITY

Keys acknowledges the validity and enforceability of the Miller Patents and agrees not to challenge their validity or enforceability or assist any other party, directly or indirectly, in asserting that the Miller Patents are invalid or unenforceable, except that Keys may respond to any subpoena, court order, or other legal or judicial process.

#### 6. RELEASES

The Parties and their respective directors, officers, agents, employees, parent companies, subsidiaries and affiliated companies hereby release and forever discharge each other and Seattle Athletic & Exercise, Inc. from any and all claims, demands, causes of action, liabilities, damages, costs and attorneys' fees of any nature arising out of or related to infringement of the Miller Patents by the making, using, selling or importing of the Keys E-Trainer or either the Washington Action or the Texas Action and occurring prior to the execution of this Settlement

Agreement, including without limitation any claims, known or unknown, which were or could have been raised in the Washington Action or the Texas Action. The releases provided by this paragraph shall also extend to customers of Keys for any E-Trainer purchased, directly or indirectly, from Keys to date, including those purchased during the inventory liquidation described in paragraph 3 above.

### 7. SUFFICIENCY OF CONSIDERATION

The Parties have agreed to enter into this Settlement Agreement to put an end to potentially expensive and protracted litigation. The sufficiency of the consideration for this Settlement Agreement is acknowledged by all Parties. This Settlement Agreement is the result of a negotiated compromise which the Parties believe to be fair and equitable.

## 8. VOLUNTARY CONSENT TO AGREEMENT

Each party declares that it knows and understands the contents of this Settlement Agreement and that this Settlement Agreement has been executed voluntarily.

## 9. MUTUAL DRAFTING CONTRIBUTION

This Settlement Agreement has been drafted on the basis of the Parties' mutual contribution to the drafting language and it is not to be construed against any party as being the drafter of this Settlement Agreement. Should there be any finding of ambiguity in any provision of this Settlement Agreement, such ambiguity shall not be construed against any party as the drafter.

#### 10. BINDING EFFECT

This Settlement Agreement shall, to the extent applicable, be binding upon and inure to the benefit of the successors, heirs and assigns of the Parties hereto.

## 11. GOVERNING LAW

This Settlement Agreement shall be interpreted in accordance with, be governed by, and be enforced in all respects by the laws of the State of Washington.

### 12. ENTIRE AGREEMENT

This Settlement Agreement constitutes the entire agreement between these Parties with respect to the subject matter contained herein, and all prior negotiations, agreements, understandings, whether written or oral, between the Parties are deemed superseded and are hereby replaced. No provision may be changed, waived, or modified except in writing signed by the Parties to be bound.

# 13. AUTHORITY TO ENTER AGREEMENT

Each of the Parties hereto represents and warrants that, as of the date of the execution of this Settlement Agreement, he or it has the right and authority to execute this Settlement Agreement and he or it has not sold, assigned, transferred, conveyed, or otherwise disposed of any claims or demands relating to any right surrendered by virtue of this Settlement Agreement. Precor shall defend and indemnify Keys from and against any and all claims by third parties alleging that Keys E-Trainers heretofore sold by Keys or currently held in existing inventory infringe upon any of the Miller Patents.

Each further represents and warrants that he or it has had the opportunity to consult and has consulted legal counsel in connection with the negotiation and execution of this Settlement Agreement.

### 14. EXECUTION IN COUNTERPARTS

This Settlement Agreement and mutual release may be executed in counterparts and shall be binding on all Parties as if the original was signed by all Parties.

The Parties acknowledge the acceptance of the terms and conditions set forth in this Settlement Agreement through their individual signatures or the signatures of their duly authorized representatives on the dates appearing under such signatures below.

Date: <u>7-25-98</u>	LARRY MILLER, an individual
	PRECOR INCORPORATED
	By:
	KEYS FITNESS PRODUCTS, L.P.
	By:

d-194609.8

# **EXHIBIT D**

## SETTLEMENT AGREEMENT

This Settlement Agreement is entered into on this \_\_\_\_\_\_\_ day of February, 1998 (the "Effective Date") by and between Precor Incorporated ("Precor"), having a principal place of business in Bothell, Washington, Larry Miller ("Miller"), an individual having an address in Rochester, Michigan, and Keys Fitness Products, L.P. ("Keys"), having a principal place of business at 11220 Petal Street, Dallas, Texas (collectively, the "Parties").

### RECITALS

WHEREAS, Miller is the sole inventor of various inventions relating to stationary exercise equipment devices known as elliptical exercise devices that simulate running and stepping motions, and he has obtained numerous patents covering such devices, namely U.S. Patent Nos. 5,242,343; 5,383,829; 5,518,473; 5,562,574; and 5,577,985 (collectively, the "Miller Patents"); and

WHEREAS, Miller has exclusively licensed the Miller Patents to Precor pursuant to which Precor has the right to file and pursue suit against infringers of the Miller Patents and retain all recoveries and awards received; and

WHEREAS, on October 1, 1997, Keys filed a complaint in the United States District

Court for the Northern District of Texas at Dallas, Civil Action No. 3:97-CV-21416-T (the

"Texas Action") naming Precor as a defendant, alleging unfair competition and seeking a

declaratory judgment of noninfringement, invalidity and unenforceability of the Miller Patents,

which action has now been transferred to the Western District of Washington, Civil Action No. \_\_

C98-192R ; and

## 2. DISMISSAL OF TEXAS ACTION

Precor and Keys shall stipulate to the dismissal of all claims in the Texas Action, with prejudice, each party to bear its own costs and fees. The form of the Stipulated Motion of Dismissal shall be substantially in accordance with Exhibit B to this Settlement Agreement, which Precor and Keys will instruct their respective counsel to execute and file with the Washington court to which the case has been transferred.

# 3. LIQUIDATION OF ELLIPTICAL EXERCISERS AND NO FURTHER MANUFACTURE

Keys, including its directors, officers, agents, employees, parent companies and subsidiaries, agrees that as of the Effective Date it will not import, manufacture, have manufactured, offer for sale or sell any additional Keys E-Trainer units, except Keys will be permitted to liquidate its existing inventory of Keys E-Trainer units (approximately 6,000 units) on or before nine (9) months from the Effective Date. In addition, Keys, including its directors, officers, agents, employees, parent companies and subsidiaries, agrees that after the Effective Date it will not manufacture, use, offer for sale, sell or import any elliptical exercise device which infringes any claim of the '829 patent. Keys represents that it does not own or possess any molds, presses, blanks, forms and other devices used in the manufacture of the Keys E-Trainer. Further, Keys shall certify on or before nine (9) months from the Effective Date of this Settlement Agreement that all of the approximately 6,000 remaining Keys E-Trainer units have been sold or destroyed. Precor shall have the right to audit the pertinent records of Keys to confirm the accuracy of this certification.

## 4. PAYMENT

Upon execution of this Settlement Agreement, Keys shall immediately pay to Precor the sum of (i) U.S. No other payments shall be due or owing from Keys to either Precor or Miller with respect to this Settlement Agreement or the Miller Patents. The amount of the payment by Keys to Precor shall remain strictly confidential and shall not be divulged by any Party or their representatives, except to their business and legal advisors (which shall be informed of this confidentiality obligation), taxing authorities, or upon order of a court of competent jurisdiction. The Parties acknowledge that the amount of Keys' payment hereunder does not fully satisfy Precor's claimed damages, the full satisfaction of which Precor may seek to recover from Macro Progress in the Washington Action.

### 5. ACKNOWLEDGMENT OF VALIDITY

Keys acknowledges the validity and enforceability of the Miller Patents and agrees not to challenge their validity or enforceability or assist any other party, directly or indirectly, in asserting that the Miller Patents are invalid or unenforceable, except that Keys may respond to any subpoena, court order, or other legal or judicial process.

### 6. RELEASES

The Parties and their respective directors, officers, agents, employees, parent companies, subsidiaries and affiliated companies hereby release and forever discharge each other and Seattle Athletic & Exercise, Inc. from any and all claims, demands, causes of action, liabilities, damages, costs and attorneys' fees of any nature arising out of or related to infringement of the Miller Patents by the making, using, selling or importing of the Keys E-Trainer or either the Washington Action or the Texas Action and occurring prior to the execution of this Settlement

Agreement, including without limitation any claims, known or unknown, which were or could have been raised in the Washington Action or the Texas Action. The releases provided by this paragraph shall also extend to customers of Keys for any E-Trainer purchased, directly or indirectly, from Keys to date, including those purchased during the inventory liquidation described in paragraph 3 above.

## 7. SUFFICIENCY OF CONSIDERATION

The Parties have agreed to enter into this Settlement Agreement to put an end to potentially expensive and protracted litigation. The sufficiency of the consideration for this Settlement Agreement is acknowledged by all Parties. This Settlement Agreement is the result of a negotiated compromise which the Parties believe to be fair and equitable.

## 8. VOLUNTARY CONSENT TO AGREEMENT

Each party declares that it knows and understands the contents of this Settlement Agreement and that this Settlement Agreement has been executed voluntarily.

## 9. MUTUAL DRAFTING CONTRIBUTION

This Settlement Agreement has been drafted on the basis of the Parties' mutual contribution to the drafting language and it is not to be construed against any party as being the drafter of this Settlement Agreement. Should there be any finding of ambiguity in any provision of this Settlement Agreement, such ambiguity shall not be construed against any party as the drafter.

## 10. BINDING EFFECT

This Settlement Agreement shall, to the extent applicable, be binding upon and inure to the benefit of the successors, heirs and assigns of the Parties hereto.

## 11. GOVERNING LAW

This Settlement Agreement shall be interpreted in accordance with, be governed by, and be enforced in all respects by the laws of the State of Washington.

### 12. ENTIRE AGREEMENT

This Settlement Agreement constitutes the entire agreement between these Parties with respect to the subject matter contained herein, and all prior negotiations, agreements, understandings, whether written or oral, between the Parties are deemed superseded and are hereby replaced. No provision may be changed, waived, or modified except in writing signed by the Parties to be bound.

#### 13. AUTHORITY TO ENTER AGREEMENT

Each of the Parties hereto represents and warrants that, as of the date of the execution of this Settlement Agreement, he or it has the right and authority to execute this Settlement Agreement and he or it has not sold, assigned, transferred, conveyed, or otherwise disposed of any claims or demands relating to any right surrendered by virtue of this Settlement Agreement. Precor shall defend and indemnify Keys from and against any and all claims by third parties alleging that Keys E-Trainers heretofore sold by Keys or currently held in existing inventory infringe upon any of the Miller Patents.

Each further represents and warrants that he or it has had the opportunity to consult and has consulted legal counsel in connection with the negotiation and execution of this Settlement Agreement.

# 14. EXECUTION IN COUNTERPARTS

This Settlement Agreement and mutual release may be executed in counterparts and shall be binding on all Parties as if the original was signed by all Parties.

The Parties acknowledge the acceptance of the terms and conditions set forth in this Settlement Agreement through their individual signatures or the signatures of their duly authorized representatives on the dates appearing under such signatures below.

Date: 2-25-98

LARRY MILLER, an individual

PRECOR INCORPORATED

By: William W. Potts
Its: President

Date: 2/26/98

KEYS FITNESS PRODUCTS, L.P.

By: It's sole general partner Parkhill Hanagement, In
By: Tomchen Tim Chen

Date: 3/4/98

d-494609.8

# **EXHIBIT E**



ENGINEERED FOR ENDURANCE, STRENGTH, SPEED, STAMINA, AND PERFORMANCE









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- Contact Us
  - Warranty
    - Service
  - Press ۰0
- About Ironman 40 •8
- Online Magazine

# PRODUCTS

- Treadmills
  - Bikes •\$
  - Strength
- Ellipticals ۰\$
- Accessories
- Vibration Trainer



#### Elliptical 250e Features NEW!

- Large 2 window LCD display
- 16 Levels Programmable ECB Tension
- 275 lbs weight limit



130e

250e



ENGINEERED FOR ENDURANCE, STRENGTH, SPEED, STAMINA, AND PERFORMANCE









Home «

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40

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Warranty \*

Contact Us

- Service
- Press \*\*
- About Ironman
- Online Magazine «

# PRODUCTS

- Treadmills \*
  - Bikes \*
  - Strength «
  - Ellipticals \*
- Accessories
- Vibration Trainer 🔹



#### Ellipticals 420e Features:

- Transport Wheels
- Water Bottle Holder
- Large Foot Platforms

Manufacturer's suggested retail price:

\$999.99



120e

130e

250e

420e

5

60

1

Achiever

CDT



bikes



# KeysFitness

treadmills

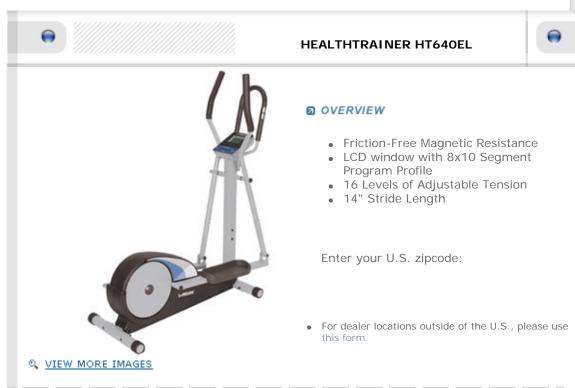


HT840EL

· HT640EL

Side-by-Side Comparison





#### ☑ PRODUCT DESCRIPTION

Well known for their intelligently designed and highly durable machines, Keys Fitness is proud to offer this Health Trainer 640 Elliptical.

Like all Keys Fitness equipment, this HT640EL is a complete exercise system. Combining stimulating aesthetics with proven performance, the ergonomic and biomechanical design utilizes solid heavy gauge steel framework, backed by a lifetime frame warranty, to provide years of gym-quality performance.

The unique design of this elliptical offers you a low-impact total body workout at a fraction of the cost of an actual gym unit. The 14 inch stride length provides a wide range of motion working your muscles effectively. You can even use the unit in reverse to utilize multiple muscle groups.

The 18 built in programs include a wide range of options, including 4 heart rate, fat burn, interval, hill, mountain, and manual together with 16 levels of resistance to personalize the workout to your needs.

In addition, grip heart rate monitoring works together with the LCD display to track your heart rate and metrics as you exercise. Quiet magnetic resistance assures a smooth ride while the front transport wheels make it easy to move. And as the low-power console runs off of batteries, you can use it anywhere without having to worry about wires going everywhere.

Whether you're just starting out, or a pro-athlete needing to keep in shape, this is an