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Exercise bench and combination with user engageable attachments

Abstract

An exercise bench includes a base frame having a left side rail with a channel and a right side rail with a channel, and a support system having a front bar and a rear bar extending substantially parallel to one another; rear angled support bars extending from the rear bar to the left side rail and the right side rail; and front angled support bars extending from the front bar to the left side rail and the right side rail; a mid-frame having wheels for engaging with the channels; a seat frame coupled to the mid-frame; a seat support and a back support each coupled to the seat frame; and receivers extending from one or more of the left side rail, the right side rail, the front bar, and the rear bar; the seat support and the back support are independently adjustable; and the receivers are to receive attachments.

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Background/Summary

RELATED APPLICATIONS (1) This application claims priority to U.S. Provisional Application No. 63/411,301, filed Sep. 29, 2022, and U.S. Provisional Application No. 63/503,876, filed May 23, 2023. Both of the foregoing are incorporated by reference in their entireties herein.

FIELD OF INVENTION

(1) The disclosure relates generally to exercise equipment. More specifically, the disclosure relates to an exercise bench with an adjustable seat support and back support, as well as a plurality of receivers, for engaging with user selectable attachments to provide for a diverse and extensive range of exercises for the user. The exercise bench further includes a sliding frame assembly for providing additional adjustability of the exercise bench.

SUMMARY

(2) This summary is provided to introduce a selection of concepts in a simplified form that are further described below in the detailed description. This summary is not intended to identify key features or essential features of the claimed subject matter, nor is it intended to be used to limit the scope of the claimed subject matter. Other aspects and advantages of the invention will be apparent from the following detailed description of the embodiments and the accompanying drawing figures.

(3) According to an embodiment of the current disclosure, the invention includes an exercise bench, including a base frame having a left side rail with a first channel and a right side rail with a second

channel, the left and right side rails extending parallel to one another, and the base frame having a support system. The support system includes a front bar and a rear bar extending substantially parallel to one another; one or more rear angled support bars extending from the rear bar to the left side rail and the right side rail; and one or more front angled support bars extending from the front bar to the left side rail and the right side rail. A mid-frame includes a plurality of wheels for engaging with the first channel and the second channel. A seat frame coupled to the mid-frame. A seat support coupled to the seat frame and a back support coupled to the seat frame, the seat support and the back support are independently adjustable. A plurality of receivers extending from one or more of the left side rail, the right side rail, the front bar, and the rear bar, the plurality of receivers are configured to receive user selectable attachments.

(4) In yet another embodiment of the current disclosure, the invention includes a combination of an exercise bench and a user attachment system. The exercise bench includes a base frame having a left side rail with a first channel and a right side rail with a second channel, the left and right side rails extending parallel to one another, and the base frame having a support system. The support system includes a front bar and a rear bar extending substantially parallel to one another, one or more rear angled support bars extending from the rear bar to the left side rail and the right side rail, and one or more front angled support bars extending from the front bar to the left side rail and the right side rail. A mid-frame includes a plurality of wheels for engaging with the first channel and the second channel. A seat frame coupled to the mid-frame. A seat support coupled to the seat frame and a back support coupled to the seat frame, the seat support and the back support are independently adjustable. A plurality of receivers extend from one or more of the left side rail, the right side rail, the front bar, and the rear bar. The user attachment includes a connector for engaging with one or more of the plurality of receivers; and one or more user engageable devices coupled to the connector, wherein the one or more user engageable devices are configured to be engaged by the user during an exercise.

Description

BRIEF DESCRIPTION OF THE DRAWINGS

(1) Embodiments of the invention are described in detail below with reference to the attached drawings.

(2) FIG. **1** is a top angled perspective view of an exercise bench from a first side in accordance with the present invention.

(3) FIG. **2** is another top angled perspective view of the exercise bench of FIG. **1** from a second side.

(4) FIG. **3** is another perspective view of the exercise bench of FIG. **1** with a seat support and a back support in second positions.

(5) FIG. **4** is another perspective view of the exercise bench of FIG. **1** with the seat support and back support in third positions.

(6) FIG. **5** is another perspective view of the exercise bench of FIG. **1** with the seat support and the back support in the position of FIG. **4**, from another angle.

(7) FIG. **6** is another perspective view of the exercise bench of FIG. **1** with a first pair of attachments.

(8) FIG. **7** is another perspective view of the exercise bench of FIG. **1** with a second pair of attachments.

(9) FIG. **8** is another perspective view of the exercise bench of FIG. **1** with the seat support removed, a foot plate attachment, and a pair of shoulder attachments.

(10) FIG. **9** is a side view of the exercise bench of FIG. **1** with the foot plate attachment, and a fourth pair of attachments.

(11) FIG. **10** is a perspective view of the exercise bench of FIG. **1** with a fifth attachment.
(12) FIG. **11** is a perspective view of the exercise bench of FIG. **1** with a sixth attachment.
(13) FIG. **12** is a perspective view of the exercise bench of FIG. **1** with a seventh attachment.
(14) FIG. **13** is a perspective disassembled view of a sliding frame assembly consisting of a base frame, a mid-frame, and a seat frame as part of the exercise bench of FIG. **1**.
(15) FIG. **14** is a front assembled view of the sliding frame assembly consisting of the base frame, the mid frame, and the seat frame as part of the exercise bench of FIG. **1**.
(16) FIG. **15** is a perspective view of the exercise bench of FIG. **1** with an eighth attachment in a first position.
(17) FIG. **16** is a perspective view of the exercise bench of FIG. **1** with the eighth attachment in a second position.
(18) The drawings do not limit the invention to the specific embodiments disclosed and described herein. The drawings are not necessarily to scale, emphasis instead being placed upon clearly illustrating various principles of the disclosure.

DETAILED DESCRIPTION

(19) In this description, references to “one embodiment,” “an embodiment,” or “embodiments” mean that the feature or features being referred to are included in at least one embodiment of the technology. Separate references to “one embodiment,” “an embodiment,” or “embodiments” in this description do not necessarily refer to the same embodiment and are also not mutually exclusive unless so stated and/or except as will be readily apparent to those skilled in the art from the description. For example, a feature, structure, act, etc. described in one embodiment may also be included in other embodiments, but is not necessarily included. Thus, the technology can include a variety of combinations and/or integrations of the embodiments described herein.
(20) Exercise equipment is well known in the art and varies from complex machinery to simple devices, wherein a user may select various equipment based on their needs. Those skilled in the art will recognize that adjustability and diversity in exercise equipment is desirable. In addition, the ability to utilize one machine or device for multiple exercises, is desirable. Adjustability and diversity are key for the user to get the best workout, with the least amount of equipment, and taking up the smallest footprint. This is desirable for both gym and home equipment, as space and resources are never unlimited.
(21) Accordingly, the present invention provides for an exercise bench with a seat support and a back support, each being independently adjustable in multiple ways. The exercise bench includes a plurality of receivers at a plurality of different locations for allowing user selectable attachments to be attached to the exercise bench, such that the user can complete a plurality of different exercises with the bench as the primary support system. For example, the user may adjust an angle and position of the seat support and back support, add a foot plate attachment, and add a pair of shoulder attachments, and complete a first workout. Then the user may again adjust and change the positioning and angles of the seat support and back support, remove the foot plate attachment and pair of shoulder attachments, and proceed to adding a pair of chest engaging attachments, and complete a second workout. This process can continue over the workout to provide the user with an extremely diverse and complete workout all while utilizing the same core bench described herein. The present invention further includes a sliding frame assembly comprising a base frame, a mid-frame, and a seat frame, wherein the mid-frame is coupled to the base frame and can traverse relative to the base frame, and the seat frame is coupled to the mid-frame and can transverse relative to the mid frame. Accordingly, the mid-frame can be allowed to move freely, or locked in place, as so too can the seat frame. Again, these features allowing for additional flexibility in use.
(22) FIGS. **1** and **2** depict the exercise bench **100** from a first side and a second side. The bench **100** includes the seat support **102** and the back support **106** which are composed of a padded structure to support the user's body thereon. The exact shape and size of these supports **102**, **106** can vary as would be understood by those skilled in the art. The supports **102**, **106** are each also engaged with a

pivot connection **104** which allows for the angle of the supports **102**, **106** to be adjusted. The pivot connection **104** is best shown in FIG. **8**. For example, as shown in FIG. **3**, the back support **106** may be raised to a substantially seated position. In addition, the seat support **102** may be angled upwards as desired or needed by the user.

(23) A support system **108** rests on a ground surface and provides structural integrity for the bench **100**. The support system **108** includes a front support bar **110** and a rear support bar **112** which are positioned substantially parallel to one another and rest on the ground surface. Rear angled support bars **116**, **200** extend from the rear support bar **112**. A cross bar **202** is positioned between the rear angled support bars **116**, **200** and is engaged therewith via a hinge **402**. Similarly, front angled support bars **114** extend from the front support bar **110**. In embodiments, wheels **120**, **122** are attached to the front support bar **110** to allow for easy movement of the exercise bench **100**. For example, a user may tilt the bench **100** upwards such that the entire weight of the bench **100** is supported by the wheels **120**, **122** and then proceed to move the bench **100**. As part of a base frame **1301**, discussed later herein, is a right side rail **118** and a left side rail **204** which extend parallel to one another and allow for additional modifications to the bench **100**. One or more handles **226** allow for easy user manipulation of the bench **100**. Those skilled in the art will appreciate that all of the support system **108** components may vary in materials, have size modifications, and the like without departing from the present invention.

(24) The bench **100** includes a plurality of receivers to allow for user selectable attachments (shown in FIGS. **6-12**). As shown, a front attachment bracket **124** extends from the front support bar **110** and supports receivers **126**, **128**, which extend upwards and include apertures **130**, **132** for receiving pins or other securement devices (not shown). Accordingly, a user selectable attachment can secure to the front support bar **110**. A plurality of rail attachments **142**, **150**, **206**, **214** are selectively positioned along the rails **118**, **204** as shown. Said rail attachments **142**, **150**, **206**, **214** are adjustable in position via pins **148**, **156**, **212**, **220** within the associated rails **118**, **204** and further include additional rail receivers **144**, **146**, **152**, **154**, **208**, **210**, **216**, **218** for receiving attachments. Accordingly, a user can adjust a position of one or more of the rail attachments to then receive a user selectable attachment. Such adjustability is critical for users of varying heights, and for use of the bench **100** with a plurality of exercises. Yet further, rear receivers **222**, **224** extend upward from the rear support bar **112** for engaging with attachments. Again, apertures allow for engagement with pins or other securement devices to lock attachments therein. Yet further, side receivers **134**, **136** with pins **138**, **140** extend outwardly and to the sides for additional attachment locations. The side receivers **134**, **136** may be at least partially supported by the front bar **110**. And lastly, as best shown in FIG. **9**, back receivers **900** may extend from a back brace **500**. The back receivers **900** may be in pairs and extend from both sides, although only one side is shown. In embodiments, all or some of the receivers are hexagonal in shape to provide a secure fit to insert connectors associated with the various attachments. Hexagonal connections ensure that the connectors and receivers are locked together and rotational movement is prevented.

(25) As best shown in FIG. **3**, the bench **100** includes a left side track **300** and a right side track **302**, each track consisting of a first side and a second side. Namely, left side track **300** includes a first side **304** and a second side **306**, each with a plurality of apertures **312**. Similarly, the right side track **302** includes a first side **308** and a second side **310**, each with a plurality of apertures **314**. The side tracks **300**, **302** are part of a mid-frame **1302**, discussed in FIG. **3**, and provide for locations to lock the mid-frame **1302** at a position relative to the base frame **1301**. Similarly, the tracks **300**, **302** provide locations to lock the seat frame **1304** relative to the mid-frame. Such locking is accomplished via pins, or similar securement devices, as would be understood by those skilled in the art. Also shown best in FIG. **3**, are two end rings **316**, **318** which extend into the associated tracks. These end rings **316**, **318** may provide a variety of functions such as additional attachment locations for accessories. These features are particularly useful for pushing exercises, such as leg press, as shown in FIG. **9**, and offer users options for cable resistance in addition to

weight plate resistance.
(26) Turning now to FIGS. **4** and **5**, the bench **100** is shown in an adjusted position. Namely, the back support **106** is pivoted upwards such that it may support the user in a substantially seated position. The rear angled support bars **116**, **200** are coupled to the left side rail **204** and the right side rail **118** via a hinge **117**. This allows for rear bar **112** to pivot underneath of the back support **106** as shown in FIGS. **4** and **5**. The cross bar **202** extends between the first angled support bar **116** and the second angled support bar **200** and is also coupled to the first angled support bar **116** and the second angled support bar **200** bar via another hinge **402**. An adjustable support bar **404** is attached to the cross bar **202** and extends to the left side rail **204** and the right side rail **118** and again is attached thereto via another hinge **513**, the adjustable support bar **404** is adjustable in length. Accordingly, this configuration allows for the left and right side rails **204**, **118** to be raised at an angle, as shown, while the rear bar **112** remains on the ground.
(27) Also shown best in FIG. **5** is a back brace **500** which is secured to an underneath side of the back support **106**. The back brace **500** provides a location to attach an adjustable bar **502** with pin **504**. The adjustable bar **502** extends therefrom and engages at a pivot connection **908** (see FIG. **9**) positioned between the left side rail **204** and the right side rail **118**. Accordingly, the left and right side rails **204**, **118** can be raised up to an angle, and then the back support **106** can also be adjusted at an angle relative to the left and right side rails **118**, **204**. Further, a dual rail system **506**, **508** is attached to and extends downward from the back brace **500**. The dual rail system **506**, **508** allows for height adjustment of the back support **106**. In embodiments, a pin **510** is provided for engaging with attachments, as part of connections **1026** and **1122**, discussed in reference to FIGS. **10** and **11**. This combination of features allows for extensive customization by a user depending on an exercise they desire to perform.
(28) Also shown best in FIG. **5**, the rear bar **112** supports two extension legs **400**, **512** that extend and contract outward and inward. Such adjustment can allow a user to extend the legs **400**, **512** out for improved stability, and inward for limited floor space or storage.
(29) FIGS. **6** through **12** depict a plurality of examples of attachments for use with the bench **100**. These attachments are shown and intended as examples, and those skilled in the art will appreciate that additional attachments may be developed with the teachings discussed in the present disclosure.
(30) FIG. **6** shows a first pair of attachments **600**, **602**, each independently coupled to one of the rail attachments discussed above. Accordingly, a position along an associated rail can be adjusted. In other words, as rail attachment **150** is adjusted along rail **118**, so too is the associated attachment **602**. This adjustment can allow for use of the bench and attachment combination by users of varying heights, as well as for engagement by varying muscle groups. The attachments **600**, **602** each include an associated connector, example connector **616**, for engaging with the receivers extending from the associated rail attachment, example rail attachment **150**. Rotational joints, example rotational joint **618**, couple the connectors to associated arms **612**, **614**. The arms **612**, **614** then support adjustable carriages **610***a-d*, which further support handles **603**, **604** and weight receivers **606**, **608**. The attachment pair **600**, **602** can be used for chest exercises, such as fly curls.
(31) FIG. **7** depicts a second pair of attachments **700**, **702**, each having a pad/handle combination **704**, **706**. The pad/handle combinations **704**, **706** are each coupled to an associated arm **714**, **716**. Each arm **714**, **716** further supports a weight receiver **708**, **710**. Again, carriages are used to allow for adjustability of the weight receivers and pad/handle combinations. The arms are coupled to connectors **712** via rotational joints **718**, **720**. Although not shown in FIG. **7**, those skilled in the art will appreciate that the connectors **712** extend to back receivers **900** as shown best in FIG. **9**. The pair of attachments **700**, **702** allows for lateral shoulder exercises.
(32) In FIG. **8**, another pair of attachments **801**, **802** are shown. Similar to the pair of attachments **700**, **702** of FIG. **7**, this pair **801**, **802** includes combination pad/handles **816**, **818**, weight receivers **820**, **822**, and connectors **823**, **824**. The orientation of the pad/handles **816**, **818** is configured for

engaging with a top of the user's shoulder, such as for a hack squat style exercise. FIG. **8** also shows a foot plate attachment **800**, having a floor support **804**, which again may be adjustable. The floor support **804** is coupled to connectors **806**, **808** that are then coupled to receivers **134**, **136** as shown. A foot plate **810** is coupled to the floor support **804** via carriages **813**, **814** to again accommodate users of varying heights and needs. In this particular embodiment, the seat support is removed, leaving just the back support **106**. Accordingly, the user can rest on the back support **106** and as they complete squatting exercises, the back support **106** will glide along the tracks **300**, **302** to accommodate the movement of use user.

(33) FIG. **9** depicts a side view showing another configuration with the foot plate attachment **800**. Here, the seat support **102** is reattached with the back support **106** positioned at a desired angle via the adjustable bar **502**, pin **504**, back brace **500**, and pivot connection **908**. The seat support **102** is engaged with the tracks such that the user can push against the foot plate **810** and glide backwards along the tracks. Further, an additional weight attachment **902** with one or more weight receivers **906** and one or more handles **904** can be used for support and to add weighted resistance.

(34) In FIG. **10**, another attachment **1000** is shown. Here, a first leg pad **1002** is positioned such that a user's legs will rest thereon, while engaging with additional leg pads **1004** such as for leg extensions. Connection systems **1006**, **1008** extend from the first leg pad **1002** and couple to arms **1010**, **1012**. Said arms **1010**, **1012** support weight receivers **1018**, **1020** via carriages **1014**, **1016** and further extend o the leg pads **1004** via carriages **1022**, **1024**. Here, a connection system **1026** connects the attachment **1000** to the bench. Referring back to FIG. **3**, the connection system **1026**, in embodiments, is a frame mounted shaft and pin combination **322**. As discussed above, the user can make any number of adjustments to the bench and attachment **1000** to support their height, fitness level, or the like.

(35) In FIG. **11**, another attachment **1100** is shown. Similar to attachment **1000**, a first leg pad **1102** supports connection systems **1106**, **1108** to couple to arms **1110**, **1112**. The arms **1110**, **1112** coupled to additional pads **1104** and weight receivers **1114**, **1116** via carriages **1118**, **1120**. Further, a connection system **1122**, which again can be a frame mounted shaft and pin combination, secures the attachment **1100** to the bench **100**.

(36) In FIG. **12**, another attachment **1200** is shown. Similar to attachments **1000**, **1100**, a first pad **1202** supports connection systems **1206**, **1208** to couple to arms **1210**, **1212**. The arms **1210**, **1212** each independently support additional pads **1204** and weight receivers **1214**, **1216** via a series of carriages **1218**, **1222**, **1220**, **1224**. And lastly, a connection system **1226** connects the attachment to the bench **100**. Connection system **1226**, as shown in FIG. **9**, may be a frame mounted shaft an pin combination **910**.

(37) Turning now to FIGS. **13** and **14**, a sliding frame assembly **1300** as part of the exercise bench **100** is shown in a disassembled view and an assembled view respectively. The sliding frame assembly **1300** allows for adjustability of the bench **100** and includes features previously discussed. A base frame **1301** includes, among other components, the support system **108** with the front support bar **110**, rear support bar **112**, rear angled support bar **116**, and side rails **118**, **204**. The base frame **1301** includes the side rails **118**, **204** which each have associated channels **1312**, **1400** that receive wheels **1310**, **1401** of a mid-frame **1302**. The connection between the mid-frame **1302** and the base frame **1301** via the wheels **1310**, **1401** and channels **1312**, **1400** allow for the mid frame **1302** to traverse forward and backward relative to the base frame **1301**. Bumpers **1314**, **1316** are positioned on ends of the channels **1312**, **1400** to prevent the wheels **1310** from disengaging. In other words, the mid frame **1302** cannot roll out from connection with the base frame **1301** due at least in part to the bumpers **1314**, **1316**. Pins, for example pin **158**, can extend through apertures of tracks **300**, **302** to lock the mid-frame **1302** relative to the base frame **1301**. In embodiments, pin **158** is specifically a spring-loaded lock-out pin to either lock or unlock the mid-frame.

(38) The mid-frame **1302** comprises the left and right tracks **300**, **302** supporting associated wheels **1310**, **1401** and further creating secondary channels **1305**, **1402**. The secondary channels **1305**,

1402 are configured to receive wheels **1308**, **1406** as part of a seat frame **1304**. The seat frame **1304** configured to traverse along the mid-frame **1302** via the wheels and channels. Again, bumpers **135**, **1320** close off ends of the secondary channels **1305**, **1402**. As shown, the seat frame **1304** comprises, among other components, the back brace **500** with receivers **900** and a seat brace **1306**. Further, as would be understood by those skilled in the art, the seat frame **1304** can lock into place via a locking pin.

(39) Accordingly, both the mid-frame **1302** and the seat frame **1304** can either be locked into place or allowed to traverse back and forth based on the user movements.

(40) In FIGS. **15** and **16**, another attachment **1500** is shown as configured for a leg press. As shown, the upper attachment **802** as describe above may be included. In this configuration, a leg press attachment **1500** includes a body support system **1502** with a base plate **1504** and attached to the front support bar **110** via connectors **1508**, **1506**. The body support system **1502** is a padded seat support configured to support the user thereon, wherein the user can then engage with a foot press **1516**. A base support **1510** supports the body support system **1502** via carriages **1512**, **1514**. As shown in FIG. **16**, the foot press **1516** is configured to fold into a compact configuration for storage.

(41) Pivoting latch systems **1518**, **1520** utilizes dual handles for ease of use in both hack squat and leg press configurations, the pivoting latch systems **1518**, **1520** each include an extension hook that locks the sliding frame such that a user can lock and unlock the body support **106** into a sliding and locked configuration.

(42) Those skilled in the art will appreciate that although the term “pin” is used to identify a plurality of components, these components can readily be understood as any style or combination of pin, bolt, screw, bar, or other device that provides the same functions discussed herein.

(43) Many different arrangements of the various components depicted, as well as components not shown, are possible without departing from the spirit and scope of the present disclosure. Embodiments of the present disclosure have been described with the intent to be illustrative rather than restrictive. Alternative embodiments will become apparent to those skilled in the art that do not depart from its scope. A skilled artisan may develop alternative means of implementing the aforementioned improvements without departing from the scope of the present disclosure. It will be understood that certain features and subcombinations are of utility and may be employed without reference to other features and subcombinations. Not all steps listed in the various figures need be carried out in the specific order described.

Claims

1. An exercise bench, comprising: a base frame having a left side rail with a first channel and a right side rail with a second channel, the left and right side rails extending parallel to one another, and the base frame having a support system, the support system having: a front bar and a rear bar extending substantially parallel to one another; one or more rear angled support bars extending from the rear bar to the left side rail and the right side rail; and one or more front angled support bars extending from the front bar to the left side rail and the right side rail; a mid-frame having a plurality of wheels for engaging with the first channel and the second channel; a seat frame coupled to the mid-frame; a seat support coupled to the seat frame; a back support coupled to the seat frame; and a plurality of receivers extending from one or more of the left side rail, the right side rail, the front bar, and the rear bar; wherein the seat support and the back support are independently adjustable; and wherein the plurality of receivers are configured to receive user selectable attachments.

2. The exercise bench of claim 1, wherein the mid-frame further comprises: a left track supporting a first set of the plurality of wheels; and a right track supporting a second set of the plurality of wheels; wherein the left track and the right track each include a plurality of apertures configured to

allow a locking pin to lock the mid-frame at a position relative to the base frame.
3. The exercise bench of claim 2, wherein the mid-frame further comprises: a first secondary channel; and a second secondary channel.
4. The exercise bench of claim 3, wherein the seat frame further comprises a second plurality of wheels for engaging with the first secondary channel and the second secondary channel such that the seat frame can traverse relative to the mid-frame.
5. The exercise bench of claim 1, further comprising: one or more wheels coupled to the front bar.
6. The exercise bench of claim 1, wherein the plurality of receivers further comprises: one or more front receivers attached to the front bar via a bracket, the one or more front receivers extending upward from the bracket and the bracket attached substantially perpendicular to the front bar; and one or more rear receivers attached to the rear bar and extending upward from the rear bar.
7. The exercise bench of claim 1, wherein the plurality of receivers further comprises: a first side receiver extending to a right side of the exercise bench; and a second side receiver extending to a left side of the exercise bench.
8. The exercise bench of claim 1, wherein the plurality of receivers further comprises: one or more rail receivers; and a rail attachment engaged with one of the right side rail or the left side rail, the rail attachment configured to traverse along the one of the right side rail or the left side rail; wherein the one or more rail receivers extends from the rail attachment.
9. The exercise bench of claim 1, wherein the plurality of receivers each have a hexagonal shaped cross section.
10. The exercise bench of claim 1, further comprising: the one or more rear angled support bars being a first angled support bar and a second angled support bar; a hinge coupling the first angled support bar and the second angled support bar to the left side rail and the right side rail; a cross bar extending between the first angled support bar and the second angled support bar and coupled to the first angled support bar and the second angled support bar via a second hinge; and an adjustable support bar attached to the cross bar and extending to the left side rail and the right side rail and attached thereto via a third hinge, the adjustable support bar adjustable in length.
11. The exercise bench of claim 1, further comprising: a back support brace coupled to the seat frame; and an adjustable bar attached to the back support brace and extending from the back support brace to a pivot connection positioned between the left side rail and the right side rail; wherein the adjustable bar is configured to raise and lower the back support.
12. A combination of an exercise bench and a user attachment system, the combination comprising: the exercise bench, having: a base frame having a left side rail with a first channel and a right side rail with a second channel, the left and right side rails extending parallel to one another, and the base frame having a support system, the support system having a front bar and a rear bar extending substantially parallel to one another, one or more rear angled support bars extending from the rear bar to the left side rail and the right side rail, and one or more front angled support bars extending from the front bar to the left side rail and the right side rail; a mid-frame having a plurality of wheels for engaging with the first channel and the second channel; a seat frame coupled to the mid-frame; a seat support coupled to the seat frame; a back support coupled to the seat frame; and a plurality of receivers extending from one or more of the left side rail, the right side rail, the front bar, and the rear bar; wherein the seat support and the back support are independently adjustable; and the user attachment, having: a connector for engaging with one or more of the plurality of receivers; and one or more user engageable devices coupled to the connector; wherein the one or more user engageable devices are configured to be engaged by a user during an exercise.
13. The combination of claim 12, further comprising: the plurality of receivers including a pair of rail receivers extending from a rail attachment, the rail attachment secured to one of the left side rail and the right side rail; the connector of the user attachment engaged with the pair of rail receivers; an arm coupled to the connector via a rotational joint; a handle adjustably coupled to the arm as the one or more user engageable devices; and a weight receiver adjustably coupled to the

arm.
14. The combination of claim 12, further comprising: the plurality of receivers including one or more receivers extending from a back brace, the back brace attached to the back support; the connector of the user attachment engaged with the one or more receivers extending from the back brace, the connector extending outwardly from the back support; a first side arm coupled to the connector via a first rotational joint; a second side arm coupled to the connector via a second rotational joint; a first pad and handle combination coupled to the first side arm; a second pad and handle combination coupled to the second side arm; a first weight receiver coupled to the first side arm; and a second weight receiver coupled to the second side arm.
15. The combination of claim 12, further comprising: the plurality of receivers including a left side receiver and a right side receiver, the connector including a first side engaged with the left side receiver and a second side engaged with the right side receiver; a floor support extending from the first side and the second side of the connector; and a foot plate adjustably coupled to the floor support.