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Play yard

Abstract

A play yard comprises two brackets, two rail members, two support frames, a central member, a plurality of connecting members and a latch mechanism. The rail members are pivotally connected to the brackets. Each of the support frames comprises two upper support members and a lower support member. The upper support members are pivotally connected to the brackets. The lower support member is pivotally connected to the upper support members. The connecting members are pivotally connected to the central member and the lower support member. The latch mechanism is configured to lock or unlock the connecting members. When the latch mechanism locks the connecting members, the rail members, the upper support members, the lower support member and the connecting members are unfolded. When the latch mechanism unlocks the connecting members, the rail members, the upper support members, the lower support member and the connecting members are able to be folded.

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Background/Summary

CROSS REFERENCE TO RELATED APPLICATIONS (1) This is a division application of Ser. No. 15/961,899, now U.S. Pat. No. 11,147,392, filed on Apr. 25, 2018. This application further claims the benefit of U.S. Provisional Application No. 62/489,830, which was filed on Apr. 25, 2017, and is incorporated herein by reference and U.S. Provisional Application No. 62/635,181, which was filed on Feb. 26, 2018, and is incorporated herein by reference.

BACKGROUND OF THE INVENTION

1. Field of the Invention

(1) The invention relates to a play yard and, more particularly, to a play yard capable of being folded or unfolded easily and rapidly.

2. Description of the Prior Art

(2) For a parent or care giver, a play yard is a practical tool to take care infants or children. In general, the play yard provides rest or entertainment space for infants or children. To reduce space occupied by the play yard for shipment or storage, most of the play yards are foldable so far and the size of the play yard can be reduced after being folded. However, the folding and unfolding process of the conventional play yard requires multiple steps, such that the operation is inconvenient for the parent or care giver.

SUMMARY OF THE INVENTION

(3) An objective of the invention is to provide a play yard capable of being folded or unfolded easily and rapidly.

(4) According to an embodiment of the invention, a play yard comprises two brackets, two rail members, two support frames, a central member, a plurality of connecting members and a latch mechanism. The rail members are pivotally connected to the brackets. Each of the support frames comprises two upper support members and a lower support member. The upper support members are pivotally connected to the brackets. The lower support member is pivotally connected to the upper support members. The connecting members are pivotally connected to the central member and the lower support member. The latch mechanism is configured to lock or unlock the connecting members. When the latch mechanism locks the connecting members, the rail members, the upper support members, the lower support member and the connecting members are unfolded with respect to each other. When the latch mechanism unlocks the connecting members, the rail members, the upper support members, the lower support member and the connecting members are able to be folded with respect to each other.

(5) As mentioned in the above, the invention utilizes the latch mechanism to lock or unlock the connecting members, so as to unfold or fold the play yard. When the rail members, the upper support members, the lower support member and the connecting members are unfolded with respect to each other, the latch mechanism locks the connecting members, such that the play yard can be situated in the unfolded state stably. If a user wants to fold the play yard for shipment or storage, the user can operate the latch mechanism to unlock the connecting members and then lift the central member, such that the rail members, the upper support members, the lower support member and the connecting members rotate toward the center of the play yard. Consequently, the rail members, the upper support members, the lower support member and the connecting members are folded with respect to each other. Accordingly, the folding and unfolding process of the play yard of the invention can be performed with minimal steps, such that the operation is very convenient for the user.

(6) These and other objectives of the present invention will no doubt become obvious to those of ordinary skill in the art after reading the following detailed description of the preferred embodiment that is illustrated in the various figures and drawings.

Description

BRIEF DESCRIPTION OF THE DRAWINGS

(1) FIG. 1 is a perspective view illustrating a play yard according to an embodiment of the invention.

(2) FIG. 2 is a sectional view illustrating the latch mechanism shown in FIG. 1.

(3) FIG. 3 is a sectional view illustrating the latch mechanism shown in FIG. 2 unlocking the connecting members.

(4) FIG. 4 is a side view illustrating the play yard shown in FIG. 1.

(5) FIG. 5 is a side view illustrating the central member shown in FIG. 4 being lifted.

(6) FIG. 6 is a side view illustrating the central member shown in FIG. 5 being lifted continuously.

(7) FIG. 7 is a side view illustrating the play yard shown in FIG. 6 being folded finally.

(8) FIG. 8 is a perspective view illustrating the bottom of the central member shown in FIG. 1.

(9) FIG. 9 is a perspective view illustrating the rail member and the upper support member shown in FIG. 1.

(10) FIG. 10 is a perspective illustrating the upper support member shown in FIG. 9 rotating toward the center of the play yard.

(11) FIG. 11 is a perspective illustrating the upper support member shown in FIG. 10 rotating toward the center of the play yard continuously.

(12) FIG. 12 is a perspective view illustrating a mattress disposed in the play yard.

(13) FIG. 13 is a perspective illustrating the mattress shown in FIG. 12.

(14) FIG. 14 is a perspective view illustrating a bassinet assembly according to an embodiment of the invention.

(15) FIG. 15 is a side view illustrating a play yard according to another embodiment of the invention.

(16) FIG. 16 is a side view illustrating the central member shown in FIG. 15 being lifted.

(17) FIG. 17 is a side view illustrating the bracket and the rail member shown in FIG. 15.

(18) FIG. 18 is a perspective view illustrating the play yard shown in FIG. 15.

(19) FIG. 19 is a perspective view illustrating the central member shown in FIG. 18 being lifted.

DETAILED DESCRIPTION

(20) Referring to FIGS. 1 to 7, FIG. 1 is a perspective view illustrating a play yard 1 according to an embodiment of the invention, FIG. 2 is a sectional view illustrating the latch mechanism 20 shown in FIG. 1, FIG. 3 is a sectional view illustrating the latch mechanism 20 shown in FIG. 2 unlocking the connecting members 18, FIG. 4 is a side view illustrating the play yard 1 shown in FIG. 1, FIG. 5 is a side view illustrating the central member 16 shown in FIG. 4 being lifted, FIG. 6 is a side view illustrating the central member 16 shown in FIG. 5 being lifted continuously, and FIG. 7 is a side view illustrating the play yard 1 shown in FIG. 6 being folded finally.

(21) As shown in FIG. 1, the play yard 1 comprises two brackets 10, two rail members 12, two support frames 14, a central member 16, a plurality of connecting members 18 and a latch mechanism 20. The rail members 12 are pivotally connected to the brackets 10. Each of the support frames 14 comprises two upper support members 140 and a lower support member 142, wherein the upper support members 140 are pivotally connected to the brackets 10 and the lower support member 142 is pivotally connected to the upper support members 140.

(22) In this embodiment, the bracket 10 is U-shaped and has a central pivot axis 100 and two rail pivot axes 102. The rail members 12 are pivotally connected to the brackets 10 by the rail pivot axes 102. The upper support members 140 are pivotally connected to the brackets 10 by the central pivot axis 100. Furthermore, each of the support frames 14 comprises two first hinges 144 and the lower support member 142 is pivotally connected to the upper support members 140 by the first hinges 144.

(23) The connecting members 18 are pivotally connected to the central member 16 and the lower support member 142. In this embodiment, the play yard 1 may further comprise a plurality of second hinges 22 disposed on the lower support member 142 and the central member 16. The connecting members 18 are pivotally connected to the central member 16 and the lower support member 142 by the second hinges 22. In this embodiment, the play yard 1 may further comprise two foot members 24 and two floating members 26. The central member 16 is connected to the foot members 24. The floating members 26 are pivotally connected to the foot members 24 by the floor pivot axes 240. The play yard 1 can be placed on a plane by the foot members 24 and the lower support members 142.

(24) The latch mechanism 20 is configured to lock or unlock the connecting members 18, so as to unfold or fold the play yard 1. In this embodiment, the latch mechanism 20 is disposed on the central member 16, but is not so limited. In another embodiment, the latch mechanism 20 may be disposed at an appropriate position near the central member 16.

(25) As shown in FIGS. 2 and 3, the central member 16 has a first slot 160 and the second hinge 22 disposed on the central member 16 has a second slot 220, wherein the second slot 220 is aligned with the first slot 160. The latch mechanism 20 comprises a casing 200, an actuating member 202, a resilient member 204 and a latch member 206. The casing 200 is disposed on the central member 16. The actuating member 202 is movably connected to the casing 200, such that the actuating member 202 can be depressed to a position shown in FIG. 3. The latch member 206 is pivotally connected to the actuating member 202 and the central member 16 by pivot axes 208, 210. The resilient member 204 is disposed between the actuating member 202 and the central member 16. In this embodiment, two resilient members 204 are disposed between the actuating member 202 and

the central member **16**, but are not so limited.

(26) As shown in FIGS. **1** and **2**, when the connecting member **18** is unfolded, a latch portion **2060** of the latch member **206** protrudes out of the first slot **160** of the central member **16** and engages with the second slot **220** of the second hinge **22**, such that the latch member **206** locks the connecting member **18**. When the latch member **206** of the latch mechanism **20** locks the connecting members **18**, the rail members **12**, the upper support members **140**, the lower support members **142** and the connecting members **18** are unfolded with respect to each other, such that the play yard **1** is situated in the unfolded state shown in FIG. **1** stably. Accordingly, the latch mechanism **20** can prevent the play yard **1** from inadvertently folding by locking the second hinges **22** to the central member **16**. Furthermore, when the latch mechanism **20** locks the connecting members **18**, the floating members **26** are unfolded and rest on the lower support members **142**, such that a mattress can be disposed on the floating members **26** and the connecting members **18**.

(27) If a user wants to fold the play yard **1** for shipment or storage, the user has to depress the actuating member **202** first. As shown in FIG. **3**, when the actuating member **202** is depressed, the latch portion **2060** of the latch member **206** retracts from the first slot **160** of the central member **16** and disengages from the second slot **220** of the second hinge **22**, such that the latch member **206** unlocks the connecting member **18**. When the latch member **206** of the latch mechanism **20** unlocks the connecting members **18**, the rail members **12**, the upper support members **140**, the lower support members **142**, the connecting members **18** and the floating members **24** are able to be folded with respect to each other.

(28) As shown in FIGS. **4** to **7**, when the latch mechanism **20** unlocks the connecting members **18**, the central member **16** is able to be lifted. When the central member **16** is lifted, the rail members **12**, the upper support members **140**, the lower support members **142**, the connecting members **18** and the floating members **24** rotate toward a center C of the play yard **1**, such that the rail members **12**, the upper support members **140**, the lower support members **142**, the connecting members **18** and the floating members **24** are folded.

(29) As shown in FIG. **5**, when the central member **16** is lifted near the center C in a direction D1, the lower support members **142** are pulled toward the center C of the play yard **1** and rotate about the first hinges **144** in a direction D2. Furthermore, the connecting members **18** and the floating members **24** also rotate toward the center C of the play yard **1** in the direction D2. As shown in FIG. **6**, as the central member **16** continues to lift in the direction D1, the lower support members **142**, the connecting members **18** and the floating members **24** continues to rotate toward the center C of the play yard **1** in the direction D2. As shown in FIG. **7**, as the central member **16** continues to lift in the direction D1, the lower support members **142** complete a full 180 degrees rotation in the direction D2 and rest against the inner side of the upper support members **140**. Furthermore, the rail members **12** and the upper support members **140** also rotate toward the center C of the play yard **1** in the direction D2. Consequently, the play yard **1** is folded.

(30) Referring to FIG. **8**, FIG. **8** is a perspective view illustrating the bottom of the central member **16** shown in FIG. **1**. As shown in FIG. **8**, at least one of the second hinges **22** has a restraining groove **222** and the central member **16** has at least one restraining portion **162** located in the restraining groove **222**. Accordingly, a rotation angle of the connecting member **18** is limited by the restraining portion **162** and the restraining groove **222** during the folding and unfolding process.

(31) Referring to FIGS. **9** to **11**, FIG. **9** is a perspective view illustrating the rail member **12** and the upper support member **140** shown in FIG. **1**, FIG. **10** is a perspective illustrating the upper support member **140** shown in FIG. **9** rotating toward the center C of the play yard **1**, and FIG. **11** is a perspective illustrating the upper support member **140** shown in FIG. **10** rotating toward the center C of the play yard **1** continuously.

(32) As shown in FIG. **9**, the rail member **12** has a first engaging portion **120** and the upper support member **140** has a second engaging portion **1400**. When the rail member **12** and the upper support member **140** are unfolded with respect to each other, the first engaging portion **120** engages with

the second engaging portion **1400**, such that the rail member **12** is fixed in a horizontal position. Furthermore, the upper support member **140** has a first stop portion **1402** and a second stop portion **1404**. When the upper support members **140** are unfolded, the first stop portion **1402** of one of the upper support members **140** abuts against the second stop portion **1404** of another one of the upper support members **140**.

(33) When the central member **16** is lifted (as mentioned in the above), the upper support member **140** rotates toward the center C of the play yard **1** to disengage the second engaging portion **1400** from the first engaging portion **120** (as shown in FIG. **10**), such that the rail member **12** is able to rotate toward the center C of the play yard **1**. As the central member **16** continues to lift, the second engaging portion **1400** drops and no longer engages with the first engaging portion **120**, such that the rail member **12** can rotate freely toward the center C of the play yard **1**.

(34) In this embodiment, the bracket **10** may have a stop member **104**. After the upper support member **140** rotates toward the center C of the play yard **1**, the first stop portion **1402** abuts against the stop member **104**, so as to hold the upper support member **140** in a perpendicular orientation relative to the bracket **10**.

(35) Referring to FIGS. **12** and **13**, FIG. **12** is a perspective view illustrating a mattress **28** disposed in the play yard **1** and FIG. **13** is a perspective illustrating the mattress **28** shown in FIG. **12**. As shown in FIG. **12**, the play yard **1** may further comprise a mattress **28** disposed in the play yard **1**. As mentioned in the above, when the play yard **1** is unfolded, the mattress **28** can be disposed on the floating members **26** and the connecting members **18**.

(36) As shown in FIG. **13**, the mattress **28** comprises two outer panels **280**, a first central panel **282** and a second central panel **284**. The outer panels **280** are pivotally connected to opposite sides of the first central panel **282**. An access hole **286** is formed on the first central panel **282**. The second central panel **284** is pivotally connected to one of the outer panels **280** and covers the first central panel **282**. When the second central panel **284** is lifted, the access hole **286** is exposed, such that the latch mechanism **20** is able to be reached and operated to unlock the connecting member **18** and then the central member **16** is able to be lifted through the access hole **286**.

(37) In other words, when the mattress **28** is disposed in the play yard **1**, the user can lift the second central panel **284**, insert a hand into the access hole **286** to depress the actuating member **202** of the latch mechanism **20**, and then lift the central member **16**, so as to fold the play yard **1** with the mattress **28**. When the first central panel **282** is lifted together with the central member **16**, the outer panels **280** rotate toward the center C of the play yard **1** together with the floating members **26**. Accordingly, the user need not remove the mattress **28** from the play yard **1** while folding the play yard **1**.

(38) Referring to FIG. **14**, FIG. **14** is a perspective view illustrating a bassinet assembly **30** according to an embodiment of the invention. As shown in FIG. **14**, the play yard **1** may further comprise a bassinet assembly **30**. The bassinet assembly **30** may be placed within the play yard **1**, for example, by being connected with fabrics (not shown) of the rail members **12**, or by being hung on the rail members **12**. The bassinet assembly **30** comprises a fabric structure **300** and two support structures **302**. The fabric structure **300** is connected with or hung on the rail members **12**. The support structures **302** are disposed in the fabric structure **300** and configured to support the aforesaid mattress **28**. In this embodiment, each of the support structures **302** comprises two rods **3020** and a pivot member **3022**, wherein the rods **3020** are pivotally connected to opposite ends of the pivot member **3022**.

(39) Furthermore, a through hole **304** is formed on a bottom of the fabric structure **300**, such that the latch mechanism **20** is able to be reached and operated to unlock the connecting member **18** and then the central member **16** is able to be lifted through the through hole **304**. In other words, when the bassinet assembly **30** is hung on the rail members **12** of the play yard **1**, the user can insert a hand into the through hole **304** to depress the actuating member **202** of the latch mechanism **20** and then lift the central member **16**, so as to fold the play yard **1** with the bassinet assembly **30**. When

the central member **16** is lifted, the rods **3020** rotate toward the center C of the play yard **1** with respect to the pivot member **3022**. Accordingly, the user need not remove the bassinet assembly **30** from the play yard **1** while folding the play yard **1**.

(40) Referring to FIGS. **15** and **16**, FIG. **15** is a side view illustrating a play yard **1'** according to another embodiment of the invention and FIG. **16** is a side view illustrating the central member **16** shown in FIG. **15** being lifted. It should be noted that the same elements in FIGS. **15-16** and FIGS. **1-14** are represented by the same numerals, so the repeated explanation will not be depicted herein again.

(41) As shown in FIGS. **15** and **16**, the play yard **1'** further comprises a softgoods clothing **32** covering the rail members **12**, the support frames **14**, the central member **16** and the connecting members **18**. In this embodiment, the softgoods clothing **32** has a tunnel **320**. The second hinge **22** on the lower support member **142** is accommodated in the tunnel **320**. The tunnel **320** allows the second hinge **22** to slide from one end to another end as the central member **16** is lifted.

(42) When the central member **16** is lifted in the direction D**1**, the connecting members **18** pull the lower support members **142** toward the center C of the play yard **1'**. While the lower support members **142** are pulled together, the tension on the side wall **322** of the softgoods clothing **32** pulls the tunnel **320** in a manner that causes the outer second hinge **22** to slide from one end of the tunnel **320** to another end. Then, the tunnel **320** begins to pull up the outer wall of the play yard **1'**, in line with the side wall **322** of the softgoods clothing **32**, while the bottom portion **324** of the softgoods clothing **32** drops away from the connecting members **18**. Accordingly, the play yard **1'** will not fold if the outer second hinge **22** is not allowed to slide inwardly along the aforementioned path of the tunnel **320**.

(43) Referring to FIG. **17**, FIG. **17** is a side view illustrating the bracket **10** and the rail member **12** shown in FIG. **15**. As shown in FIG. **17**, the play yard **1'** further comprises a first linkage member **34** and a second linkage member **36**. Furthermore, the bracket **10** has a sliding groove **106**. The first linkage member **34** is pivotally connected to the rail member **12** and the second linkage member **36**. The second linkage member **36** is pivotally connected to the sliding groove **106**. Accordingly, the second linkage member **36** can rotate and slide with respect to the sliding groove **106** as the rail member **12** is being folded or unfolded. By means of the first linkage member **34**, the second linkage member **36** and the sliding groove **106**, they can help the folding and unfolding process to operate in a balanced and consistent manner.

(44) Referring to FIGS. **18** and **19**, FIG. **18** is a perspective view illustrating the play yard **1'** shown in FIG. **15** and FIG. **19** is a perspective view illustrating the central member **16** shown in FIG. **18** being lifted. As shown in FIGS. **18** and **19**, the play yard **1'** further comprises at least one webbing strap **38** and at least two pulleys **40**. The pulleys **40** are disposed on the lower support members **142** and the webbing strap **38** is wound around the pulleys **40**. When the central member **16** is lifted, the pulleys **40** and the webbing strap **38** force the lower support members **142** to rotate toward one another at a balanced angular motion to allow the lower support members **142** to pass one another cleanly without interference. It should be noted that, the actuating member **202** of the latch mechanism **20** is disposed on the top of the casing **200**, so the user can depress the actuating member **202** downwardly to unlock the connecting member **18**.

(45) As mentioned in the above, the invention utilizes the latch mechanism to lock or unlock the connecting members, so as to unfold or fold the play yard. When the rail members, the upper support members, the lower support member and the connecting members are unfolded with respect to each other, the latch mechanism locks the connecting members, such that the play yard can be situated in the unfolded state stably. If a user wants to fold the play yard for shipment or storage, the user can operate the latch mechanism to unlock the connecting members and then lift the central member, such that the rail members, the upper support members, the lower support member and the connecting members rotate toward the center of the play yard. Consequently, the rail members, the upper support members, the lower support member and the connecting members

are folded with respect to each other. Accordingly, the folding and unfolding process of the play yard of the invention can be performed with minimal steps, such that the operation is very convenient for the user.

(46) Those skilled in the art will readily observe that numerous modifications and alterations of the device and method may be made while retaining the teachings of the invention. Accordingly, the above disclosure should be construed as limited only by the metes and bounds of the appended claims.

Claims

1. A play yard comprising: two brackets; two rail members pivotally connected to the brackets; two support frames, each of the support frames comprising two upper support members and a lower support member, the upper support members being pivotally connected to the brackets, the lower support member being pivotally connected to the upper support members; a central member; a plurality of connecting members; a plurality of first hinges disposed on each lower support member and the central member, the connecting members being pivotally connected to the central member and each lower support member by the first hinges; a softgoods clothing covering the rail members, the support frames, the central member and the connecting members, wherein the softgoods clothing has a tunnel, the first hinge on each lower support member is accommodated in the tunnel, and the tunnel allows the first hinge to slide from one end to another end of the tunnel as the central member is lifted; and a latch mechanism configured to lock or unlock the connecting members; wherein when the latch mechanism locks the connecting members, the rail members, the upper support members, the lower support members and the connecting members are unfolded with respect to each other; when the latch mechanism unlocks the connecting members, the rail members, the upper support members, the lower support member and the connecting members are able to be folded with respect to each other.
2. The play yard of claim 1, wherein the latch mechanism is disposed on the central member; when the latch mechanism unlocks the connecting members, the central member is able to be lifted; when the central member is lifted, the rail members, the upper support members, the lower support members and the connecting members rotate toward a center of the play yard.
3. The play yard of claim 1, wherein each rail member has a first engaging portion and each upper support member has a second engaging portion; when each rail member and each upper support member are unfolded with respect to each other, the first engaging portion engages with the second engaging portion, such that each rail member is fixed in a horizontal position; when the central member is lifted, each upper support member rotates toward a center of the play yard to disengage the second engaging portion from the first engaging portion, such that each rail member is able to rotate toward the center of the play yard.
4. The play yard of claim 1, wherein each upper support member has a first stop portion and a second stop portion; when the upper support members are unfolded, the first stop portion of one of the upper support members abuts against the second stop portion of another one of the upper support members.
5. The play yard of claim 4, wherein each bracket has a stop member; after each upper support member rotates toward a center of the play yard, the first stop portion abuts against the stop member.
6. The play yard of claim 1, wherein each of the support frames comprises two second hinges and each lower support member is pivotally connected to the upper support members by the second hinges.
7. The play yard of claim 1, wherein at least one of the first hinges has a restraining groove, the central member has at least one restraining portion located in the restraining groove, and a rotation angle of each connecting member is limited by the at least one restraining portion and the

restraining groove.

8. The play yard of claim 1, wherein the central member has a first slot, at least one of the first hinges has a second slot aligned with the first slot, the latch mechanism comprises a casing, an actuating member, a resilient member and a latch member, the casing is disposed on the central member, the actuating member is movably connected to the casing, the latch member is pivotally connected to the actuating member and the central member, the resilient member is disposed between the actuating member and the central member; when each connecting member is unfolded, a latch portion of the latch member protrudes out of the first slot and engages with the second slot, such that the latch member locks each connecting member; when the actuating member is depressed, the latch portion retracts from the first slot and disengages from the second slot, such that the latch member unlocks each connecting member.

9. The play yard of claim 1, further comprising two foot members and two floating members, the central member being connected to the foot members, the floating members being pivotally connected to the foot members, wherein when the latch mechanism locks the connecting members, the floating members are unfolded and rest on the lower support members; when the central member is lifted, the floating members rotate toward a center of the play yard, such that the floating members are folded.

10. The play yard of claim 1, further comprising a mattress disposed in the play yard, the mattress comprising two outer panels, a first central panel and a second central panel, the outer panels being pivotally connected to opposite sides of the first central panel, an access hole being formed on the first central panel, the second central panel being pivotally connected to one of the outer panels and covering the first central panel, wherein when the second central panel is lifted, the access hole is exposed, such that the latch mechanism is able to be operated to unlock the connecting members and the central member is able to be lifted through the access hole.

11. The play yard of claim 1, further comprising a bassinet assembly, the bassinet assembly comprising a fabric structure and two support structures, the fabric structure being hung on the rail members, the support structures being disposed in the fabric structure and configured to support a mattress.

12. The play yard of claim 11, wherein a through hole is formed on a bottom of the fabric structure, such that the latch mechanism is able to be operated to unlock the connecting members and the central member is able to be lifted through the through hole.

13. The play yard of claim 11, wherein each of the support structures comprises two rods and a pivot member, the rods are pivotally connected to the pivot member.

14. The play yard of claim 1, further comprising a first linkage member and a second linkage member, each bracket having a sliding groove, the first linkage member being pivotally connected to each rail member and the second linkage member, the second linkage member being pivotally connected to the sliding groove, the second linkage member rotating and sliding with respect to the sliding groove as each rail member is being folded or unfolded.

15. The play yard of claim 1, further comprising at least one webbing strap and at least two pulleys, the pulleys being disposed on the lower support members, the at least one webbing strap being wound around the pulleys.

16. A play yard comprising: two brackets, each of the brackets having a sliding groove; two rail members pivotally connected to the brackets; two support frames, each of the support frames comprising two upper support members and a lower support member, the upper support members being pivotally connected to the brackets, the lower support member being pivotally connected to the upper support members; a central member; a plurality of connecting members pivotally connected to the central member and the lower support member; a latch mechanism configured to lock or unlock the connecting members; a first linkage member; and a second linkage member, the first linkage member being pivotally connected to each rail member and the second linkage member, the second linkage member being pivotally connected to the sliding groove, the second

linkage member rotating and sliding with respect to the sliding groove as each rail member is being folded or unfolded; wherein when the latch mechanism locks the connecting members, the rail members, the upper support members, the lower support member and the connecting members are unfolded with respect to each other; when the latch mechanism unlocks the connecting members, the rail members, the upper support members, the lower support member and the connecting members are able to be folded with respect to each other.

17. The play yard of claim 16, wherein the latch mechanism is disposed on the central member; when the latch mechanism unlocks the connecting members, the central member is able to be lifted; when the central member is lifted, the rail members, the upper support members, the lower support members and the connecting members rotate toward a center of the play yard.

18. The play yard of claim 16, wherein the rail member has a first engaging portion and the upper support member has a second engaging portion; when the rail member and the upper support member are unfolded with respect to each other, the first engaging portion engages with the second engaging portion, such that each rail member is fixed in a horizontal position; when the central member is lifted, the upper support member rotates toward a center of the play yard to disengage the second engaging portion from the first engaging portion, such that each rail member is able to rotate toward the center of the play yard.

19. The play yard of claim 16, wherein each upper support member has a first stop portion and a second stop portion; when the upper support members are unfolded, the first stop portion of one of the upper support members abuts against the second stop portion of another one of the upper support members.

20. The play yard of claim 19, wherein the bracket has a stop member; after each upper support member rotates toward a center of the play yard, the first stop portion abuts against the stop member.

21. The play yard of claim 16, wherein each of the support frames comprises two first hinges and each lower support member is pivotally connected to the upper support members by the first hinges.

22. The play yard of claim 16, further comprising a plurality of second hinges disposed on each lower support member and the central member, the connecting members being pivotally connected to the central member and each lower support member by the second hinges.

23. The play yard of claim 22, further comprising a softgoods clothing covering the rail members, the support frames, the central member and the connecting members, wherein the softgoods clothing has a tunnel, the second hinge on each lower support member is accommodated in the tunnel, and the tunnel allows the second hinge to slide from one end to another end of the tunnel as the central member is lifted.

24. The play yard of claim 22, wherein at least one of the second hinges has a restraining groove, the central member has at least one restraining portion located in the restraining groove, and a rotation angle of each connecting member is limited by the at least one restraining portion and the restraining groove.

25. The play yard of claim 22, wherein the central member has a first slot, at least one of the second hinges has a second slot aligned with the first slot, the latch mechanism comprises a casing, an actuating member, a resilient member and a latch member, the casing is disposed on the central member, the actuating member is movably connected to the casing, the latch member is pivotally connected to the actuating member and the central member, the resilient member is disposed between the actuating member and the central member; when each connecting member is unfolded, a latch portion of the latch member protrudes out of the first slot and engages with the second slot, such that the latch member locks each connecting member; when the actuating member is depressed, the latch portion retracts from the first slot and disengages from the second slot, such that the latch member unlocks each connecting member.

26. The play yard of claim 16, further comprising two foot members and two floating members, the

central member being connected to the foot members, the floating members being pivotally connected to the foot members, wherein when the latch mechanism locks the connecting members, the floating members are unfolded and rest on the lower support members; when the central member is lifted, the floating members rotate toward a center of the play yard, such that the floating members are folded.

27. The play yard of claim 16, further comprising a mattress disposed in the play yard, the mattress comprising two outer panels, a first central panel and a second central panel, the outer panels being pivotally connected to opposite sides of the first central panel, an access hole being formed on the first central panel, the second central panel being pivotally connected to one of the outer panels and covering the first central panel, wherein when the second central panel is lifted, the access hole is exposed, such that the latch mechanism is able to be operated to unlock the connecting members and the central member is able to be lifted through the access hole.

28. The play yard of claim 16, further comprising a bassinet assembly, the bassinet assembly comprising a fabric structure and two support structures, the fabric structure being hung on the rail members, the support structures being disposed in the fabric structure and configured to support a mattress.

29. The play yard of claim 28, wherein a through hole is formed on a bottom of the fabric structure, such that the latch mechanism is able to be operated to unlock the connecting members and the central member is able to be lifted through the through hole.

30. The play yard of claim 28, wherein each of the support structures comprises two rods and a pivot member, the rods are pivotally connected to the pivot member.

31. The play yard of claim 16, further comprising at least one webbing strap and at least two pulleys, the pulleys being disposed on the lower support members, the at least one webbing strap being wound around the pulleys.

32. A play yard comprising: two brackets; two rail members pivotally connected to the brackets; two support frames, each of the support frames comprising two upper support members and a lower support member, the upper support members being pivotally connected to the brackets, the lower support member being pivotally connected to the upper support members; at least two pulleys disposed on the lower support members; at least one webbing strap wound around the pulleys; a central member; a plurality of connecting members pivotally connected to the central member and the lower support member; and a latch mechanism configured to lock or unlock the connecting members; wherein when the latch mechanism locks the connecting members, the rail members, the upper support members, the lower support members and the connecting members are unfolded with respect to each other; when the latch mechanism unlocks the connecting members, the rail members, the upper support members, the lower support member and the connecting members are able to be folded with respect to each other.

33. The play yard of claim 32, wherein the latch mechanism is disposed on the central member; when the latch mechanism unlocks the connecting members, the central member is able to be lifted; when the central member is lifted, the rail members, the upper support members, the lower support members and the connecting members rotate toward a center of the play yard.

34. The play yard of claim 32, wherein each rail member has a first engaging portion and each upper support member has a second engaging portion; when each rail member and each upper support member are unfolded with respect to each other, the first engaging portion engages with the second engaging portion, such that each rail member is fixed in a horizontal position; when the central member is lifted, each upper support member rotates toward a center of the play yard to disengage the second engaging portion from the first engaging portion, such that each rail member is able to rotate toward the center of the play yard.

35. The play yard of claim 32, wherein each upper support member has a first stop portion and a second stop portion; when the upper support members are unfolded, the first stop portion of one of the upper support members abuts against the second stop portion of another one of the upper

support members.

36. The play yard of claim 35, wherein each bracket has a stop member; after each upper support member rotates toward a center of the play yard, the first stop portion abuts against the stop member.

37. The play yard of claim 32, wherein each of the support frames comprises two first hinges and each lower support member is pivotally connected to the upper support members by the first hinges.

38. The play yard of claim 32, further comprising a plurality of second hinges disposed on each lower support member and the central member, the connecting members being pivotally connected to the central member and each lower support member by the second hinges.

39. The play yard of claim 38, further comprising a softgoods clothing covering the rail members, the support frames, the central member and the connecting members, wherein the softgoods clothing has a tunnel, the second hinge on each lower support member is accommodated in the tunnel, and the tunnel allows the second hinge to slide from one end to another end of the tunnel as the central member is lifted.

40. The play yard of claim 38, wherein at least one of the second hinges has a restraining groove, the central member has at least one restraining portion located in the restraining groove, and a rotation angle of each connecting member is limited by the at least one restraining portion and the restraining groove.

41. The play yard of claim 38, wherein the central member has a first slot, at least one of the second hinges has a second slot aligned with the first slot, the latch mechanism comprises a casing, an actuating member, a resilient member and a latch member, the casing is disposed on the central member, the actuating member is movably connected to the casing, the latch member is pivotally connected to the actuating member and the central member, the resilient member is disposed between the actuating member and the central member; when each connecting member is unfolded, a latch portion of the latch member protrudes out of the first slot and engages with the second slot, such that the latch member locks each connecting member; when the actuating member is depressed, the latch portion retracts from the first slot and disengages from the second slot, such that the latch member unlocks each connecting member.

42. The play yard of claim 32, further comprising two foot members and two floating members, the central member being connected to the foot members, the floating members being pivotally connected to the foot members, wherein when the latch mechanism locks the connecting members, the floating members are unfolded and rest on the lower support members; when the central member is lifted, the floating members rotate toward a center of the play yard, such that the floating members are folded.

43. The play yard of claim 32, further comprising a mattress disposed in the play yard, the mattress comprising two outer panels, a first central panel and a second central panel, the outer panels being pivotally connected to opposite sides of the first central panel, an access hole being formed on the first central panel, the second central panel being pivotally connected to one of the outer panels and covering the first central panel, wherein when the second central panel is lifted, the access hole is exposed, such that the latch mechanism is able to be operated to unlock the connecting members and the central member is able to be lifted through the access hole.

44. The play yard of claim 32, further comprising a bassinet assembly, the bassinet assembly comprising a fabric structure and two support structures, the fabric structure being hung on the rail members, the support structures being disposed in the fabric structure and configured to support a mattress.

45. The play yard of claim 44, wherein a through hole is formed on a bottom of the fabric structure, such that the latch mechanism is able to be operated to unlock the connecting members and the central member is able to be lifted through the through hole.

46. The play yard of claim 44, wherein each of the support structures comprises two rods and a

pivot member, the rods are pivotally connected to the pivot member.

47. The play yard of claim 32, further comprising a first linkage member and a second linkage member, each bracket having a sliding groove, the first linkage member being pivotally connected to each rail member and the second linkage member, the second linkage member being pivotally connected to the sliding groove, the second linkage member rotating and sliding with respect to the sliding groove as each rail member is being folded or unfolded.
