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MOVABLE PUZZLE PLATFORM

Abstract

The present disclosure provides a movable puzzle platform, the movable puzzle platform includes a puzzle board assembly including a puzzle board and a surrounding border wall, the puzzle board includes a top surface for placing a plurality of puzzle pieces thereon, the surrounding border wall is configured to surround edges of the top surface and protrude upward beyond the top surface, and the surrounding border wall is configured as an integral structure; the movable puzzle platform further includes a rotating assembly arranged on the rotating assembly, the puzzle board assembly is configured to self-rotate 360 degrees along with the rotation assembly.

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Background/Summary

CROSS REFERENCES AND PRIORITIES [0001] This application is a continuation of U.S. patent application Ser. No. 18/956,131, filed on Nov. 22, 2024. The U.S. patent application Ser. No. 18/956,131 is a continuation of U.S. patent application Ser. No. 18/732,602, filed on Jun. 3, 2024. The U.S. patent application Ser. No. 18/732,602 is a continuation of U.S. patent application Ser. No. 18/541,685 filed on Dec. 15, 2023, which is a continuation of U.S. patent application Ser. No. 17/505,587 filed on Oct. 19, 2021 which claims the benefit of Chinese Patent Application Nos. 2021111315541 and 2021223348151 filed on Sep. 26, 2021, the contents of each of which are incorporated by reference in their entirety.

BACKGROUND OF THE PRESENT INVENTION
Field of Invention
[0002] The present invention relates to puzzle game apparatus, and more particularly to a movable puzzle platform, wherein the puzzle platform is movable with respect to one or more players for allowing the player to move the puzzle platform for placing the puzzle pieces thereon at different planar directions, such that the player does not need to physically travel from side to side of the puzzle platform.
Description of Related Arts
[0003] Puzzles are devised over the years and are among the most popular board games generally played alone by an individual. It is well known that puzzles are good for the brain. Studies have shown that playing puzzles can improve cognition and visual-spatial reasoning, and can train concentration and patience.
[0004] Other than as a means of entertainment and enjoyment, players would like to challenge themselves by playing higher piece counts of the puzzle. Generally speaking, the higher the piece count, the harder the puzzle is. However, a common drawback or a burden for the player is that the finished size of the puzzles is relatively large. For example, a finished size of 1,000 piece puzzles is about 30″×24″, a finished size of 5,000 piece puzzles is about 60″×40″, and so on. In other words, these puzzles require a relatively large playing surface such as the surface of a table or a puzzle board for putting all the pieces together to form a puzzle figure. Therefore, to play a relatively large puzzle, for example 60″×40″ or more, the side length of the puzzle board is longer than the player's arm length that the player is unable to reach the other sides of the puzzle board, so that the player is required to move around the playing surface to put pieces at different directions and portions near each side of the puzzle board. As a skilled player, the strategies for playing the puzzles are configured for sorting the pieces into groups and assembling the border first. Therefore, the player

will need to move from one side of the playing surface to another side thereof to play the puzzles. Furthermore, it could take hours, days or even months to compete a larger scale puzzle. One or more puzzle pieces could be missed accidentally or unintentionally. It is sad that the player usually finds out there is a missing piece at the end. Therefore, how to avoid losing any pieces, it is best to find a container to save all the unfinished pieces.

[0005] A need exists for a tool that retains all the unfinished pieces and while allowing the player to conveniently player the puzzle. It is to the provision of such a tool that the present disclosure is primarily directed.

SUMMARY OF THE PRESENT INVENTION

[0006] The present disclosure provides a movable puzzle platform, the movable puzzle platform includes a puzzle board assembly including a puzzle board and a surrounding border wall, the puzzle board includes a top surface for placing a plurality of puzzle pieces thereon, the surrounding border wall is configured to surround edges of the top surface and protrude upward beyond the top surface, and the surrounding border wall is configured as an integral structure; the movable puzzle platform further includes a rotating assembly arranged on the rotating assembly, the puzzle board assembly is configured to self-rotate 360 degrees along with the rotating assembly.

Description

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] FIG. **1** is an exploded perspective view of a movable puzzle platform according to a preferred embodiment of the present invention.

[0008] FIG. **2** is a side view of a board accessible unit of the movable puzzle platform according to the above preferred embodiment of the present invention.

[0009] FIG. **3** illustrates an alternative mode of the board accessible unit of the movable puzzle platform according to the above preferred embodiment of the present invention.

[0010] FIG. **3**A illustrates another alternative mode of the board accessible unit of the movable puzzle platform according to the above preferred embodiment of the present invention.

[0011] FIG. **4** is a sectional view of a supplement arrangement of the movable puzzle platform according to the above preferred embodiment of the present invention.

[0012] FIG. **5** is a side view of the movable puzzle platform according to the above preferred embodiment of the present invention, illustrating a kickstand being pivotally folded to support the puzzle board at an inclined manner on the playing surface.

[0013] FIG. **6** is a perspective view of the movable puzzle platform incorporating with the puzzle pieces to form a puzzle game kit according to the above preferred embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0014] The following description is disclosed to enable any person skilled in the art to make and use the present invention. Preferred embodiments are provided in the following description only as examples and modifications will be apparent to those skilled in the art. The general principles defined in the following description would be applied to other embodiments, alternatives, modifications, equivalents, and applications without departing from the spirit and scope of the present invention.

[0015] Referring to FIGS. **1** and **2**, a movable puzzle platform according to a preferred embodiment of the present invention is illustrated, wherein the movable puzzle platform is arranged for a user or a player to assemble a plurality of puzzle pieces **100** on a puzzle surface of the movable puzzle platform. Accordingly, the movable puzzle platform includes a puzzle board assembly and a board accessible unit **20**.

[0016] As shown in FIGS. **1** and **2**, the puzzle board assembly includes a puzzle board **10**, the

puzzle board **10** has a panel configuration with a bottom **11** for supporting on a playing surface such as a table surface, a wall surface, a floor surface, and the like or even a support frame for supporting the movable puzzle platform on ground. The puzzle board **10** provides a top surface **12**, wherein when the top surface **12** is a flat surface, it serves as a puzzle floor **101** for playing the puzzle pieces **100** thereon. It is worth mentioning that the puzzle board **10** has a predetermined size adapted for a larger scale puzzle, such as at least 1,000 puzzle pieces, being assembled on the puzzle board **10**.

[0017] The board accessible unit **20** is coupled at the bottom surface **11** of the puzzle board **10** and configured for allowing the puzzle board **10** sliding on the playing surface, wherein the board accessible unit **20** provides accessibility for the puzzle board **10** to move the puzzle board **10** at different planar directions with respect to the playing surface.

[0018] The puzzle board **10** can be circular, square or rectangular shape. According to the preferred embodiment as shown in FIG. **1**, the puzzle board **10** is embodied to have a rectangular shape defining two longer longitudinal sides and two shorter transverse sides. The puzzle board assembly further includes a surrounding border wall **13** upwardly extended from a peripheral edge of the top surface **12** of the puzzle board **10** to define the puzzle floor **101** within the surrounding border wall **13**. In an embodiment, the surrounding border wall **13** surrounds sides of the puzzle board **10**. The surrounding border wall **13** includes two long sides and two short sides. The two longer sides of correspond to two longer longitudinal sides of the puzzle board **10**, and the two shorter sides correspond to two shorter transverse sides of the puzzle board **10**. A highest surface of the surrounding border wall **13** is higher than the puzzle floor **101**, such that the surrounding border wall **13** limits the puzzle pieces **100** within the puzzle floor **101**, preventing the puzzle pieces **100** from accidentally falling off the puzzle board. The surrounding border wall **13** is configured as an integral structure, such that two adjacent sides of the surrounding border wall **13** may be connected with each other without connection gaps, therefore a risk of breakage is reduced, and a durability of the surrounding border wall **13** is enhanced. In addition, the integral structure of the surrounding border wall **13** also achieves a more aesthetically pleasing appearance.

[0019] Regarding the structure of the surrounding border wall **13**, in an embodiment, each of the two shorter transverse sides of the puzzle board **10** defines at least one drawer cavity **31**. Each of the two shorter sides of the surrounding border wall **13** defines two openings, each opening is communicated with at least one drawer cavity **31**. Therefore each shorter side of the surrounding border wall **13** can be provided with two drawers. Each shorter side of the surrounding border wall **13** is divided into multiple portions by the two openings, including a surrounding portion **131**, a supporting portion **132**, a reinforcing portion **133**, a left portion **134**, and a right portion **135**. The surrounding portion **131** is located above the two openings. The supporting portion **132** is located below the two openings. The reinforcing portion **133** connects the surrounding portion **131** and the supporting portion **132** and is formed between the two openings. The left portion **134** is located at a left end of the two openings, and the right portion **135** is located at a right end of the two openings, both the left portion **134** and the right portion **135** are connected to the surrounding portion **131** and the supporting portion **132**. The surrounding portion **131**, the supporting portion **132**, the reinforcing portion **133**, the left portion **134**, and the right portion **135** are formed as an integral structure, which prevents connection gaps from being generated. Therefore, a rigidity of the surrounding border wall **13** is enhanced, which contributes to improving the deformation resistance of the surrounding border wall **13** near the drawer **32**.

[0020] It is worth mentioning that an area of the puzzle floor **101** is not smaller than an area of the puzzle pieces **100** being put together. Preferably, the area of the puzzle floor **101** matches with the area of the puzzle pieces **100** after the puzzle pieces **100** are assembled. In other words, the puzzle board **10** serves as a puzzle frame for framing the puzzle pieces **101** after the puzzle pieces **100** are assembled.

[0021] As shown in FIG. **1**, the puzzle board **10** further includes an anti-slipping layer **14**

overlappedly provided on the puzzle floor **101** for preventing the puzzle pieces **100** being slipped thereon. Preferably, the anti-slipping layer **14** has a self adhesive bottom surface adhered on the puzzle floor **101**, wherein the anti-slipping layer **14** can be removed from the puzzle floor **101** without damaging the puzzle floor **101** and the anti-slipping layer **14**. Therefore, the anti-slipping layer **14** is reusable to place on the puzzle floor **101**. Furthermore, the anti-slipping layer **14** serves as a backing layer of the puzzle pieces **100** after the puzzle pieces **100** are assembled.

[0022] It is appreciated that electronic puzzle game is provided as software or APP that the user or player can play the puzzle game with a display such as a TV screen, LED screen or computer monitor. However, the player may generally use a smaller screen to play because a relatively larger screen such as 50″ or more TV screen supported on a playing surface is difficult for the player to reach all sizes of the screen. In one alternative embodiment, the puzzle board **10** can be embodied as an electronic screen, such as a TV display or LED screen, and the top surface **12** is the screen surface that serves as puzzle floor for the player to select and put puzzle piece images together, wherein the board accessible unit **20** is mounted to the bottom of the electronic puzzle board **10** for allowing the electronic puzzle board **10** to smoothly slide on the playing surface that provides accessibility for moving the electronic puzzle board **10** at different planar directions with respect to the playing surface.

[0023] As shown in FIGS. **1** and **2**, the board accessible unit **20** is embodied as a rotating assembly **20**, the rotating assembly **20** includes a first moving member **21** coupled at the bottom **11** of the puzzle board **10** and a second moving member **22** rotatably coupled to the first moving member **21**. It is worth mentioning that the rotating assembly **20** is preferred to be coupled coaxially with a center of gravity of the puzzle board **10**, for example at a center portion of the puzzle board **10**, such that the puzzle board **10** can be moved on the playing surface in a balancing manner.

[0024] According to the preferred embodiment of the present invention, the puzzle board **10** is adapted for being self-rotated 360° on the playing surface via a rotation movement between the first and second moving members **21**, **22**. In other words, the user is able to selectively rotate the puzzle board **10** from one longitudinal side to another opposed longitudinal side or to any one of the shorter transverse sides without walking around the puzzle board **10**. For example, the user is able to assemble one puzzle piece **100** at one side of the puzzle board **10** and to rotate the puzzle board **10** at 180° in order to assembly another puzzle piece **100** at an opposed side of the puzzle board **10**, so as to speed up the assembling time of the puzzle pieces **100**.

[0025] In one embodiment, the first and second moving members **21**, **22** are first and second ring members respectively coaxially engaged with each other. In other words, a diabase **40***er* of the first moving member **21** is smaller than a diabase **40***er* of the second moving member **22**. The rotating assembly **20** further includes a first bearing unit **23** coupled between the first and second moving members **21**, **22**, such that when the first moving member **21**, i.e. the first ring member, is rotated within the second moving member **22**, i.e. the second ring member, the puzzle board **10** is self-rotated 360° on the playing surface. Particularly, an outer circumferential surface of the first moving member **21** is engaged with an inner circumferential surface of the second moving member **22** via the first bearing unit **23** to enable the second moving member **22** being coaxially rotated with respect to the first moving member **21**. In one embodiment, the first bearing unit **23** is constructed to have a holding ring and a plurality of ball bearings spacedly retained at the holding ring in a rotatable manner, such that when the holding ring is coaxially held between the first and second moving members **21**, **22**, the ball bearings are rotatably sandwiched between the first and second moving members **21**, **22** so as to enable the first and second moving members **21**, **22** being coaxially moved with each other.

[0026] The rotating assembly **20** further includes a second bearing unit **24** provided at a bottom side of the second moving member **22** for sliding the puzzle board **10** on the playing surface at different planar directions via the second moving member **22**. Accordingly, assumed that the playing surface defines xyz axis. Via the second bearing unit **24** at the second moving member **22**,

the puzzle board **10** is able to selectively slide on the playing surface at any direction with respect to the xy coordinate surface. Via the first bearing unit **23**, the puzzle board **10** is able to selectively rotate on the playing surface with respect to z axis. In other words, the puzzle board **10** is able to freely move at two-dimensional direction, so as to adjust the planer angle of the puzzle board **10** with respect to the user. The first moving member **21** includes a first flat base **211** and a first rolling surface **212** arranged along the first flat base **211**. The first rolling surface **212** is curved towards the first flat base **211**. The first bearing unit **23** is partly overlapped with the first flat base **211** in a thickness direction of the rotating assembly **20**. The second moving member **22** includes a second flat base **213** and a protrusion **214** protruded from the second flat base **213** toward the first moving member **21** for engaging with the first bearing unit **23**, a recess **215** extending from the second flat base **213** towards the first moving member **21** for dividing the second flat base **213** into a first part **216** and a second part **217**. The area of the first part **216** is substantially greater that of the second part **217**. The first bearing unit **23** is partly overlapped with the first part **216** of the second flat base **213**.

[0027] In one embodiment, the rotating assembly **20** is detachably coupled at the bottom surface **11** of the puzzle board **10**. As shown in FIGS. **2**, **3** and **3**A, the rotating assembly **20** includes a plurality of coupling members **25** extended from the first moving member **21** to detachably couple at the bottom surface **11** of the puzzle board **10**. Preferably, the coupling members **25** are integrally extended from an inner circumferential surface of the first ring member, i.e. the first moving member **21**, wherein each of the coupling members **25** has a coupling slot formed thereon to detachably couple at the bottom surface **11** of the puzzle board **10** by inserting screws through the coupling slot to the bottom surface **11** of the puzzle board **10**. It is worth mentioning that a plurality of screw holes are formed at the bottom surface **11** of the puzzle board **10**, such that the screws can engage with the screw holes through the coupling slot to couple the rotating assembly **20** at the bottom surface **11** of the puzzle board **10**.

[0028] Alternatively, as shown in FIG. **3**, the rotating assembly **20** further includes one or more first coupling elements **25**A spacedly provided on the bottom surface **11** of the puzzle board **10**, and one or more second coupling elements **26**A spacedly provided at the first moving member **21** to detachably couple the first coupling elements **25**A so as to detachably couple the rotating assembly **20** at the bottom surface **11** of the puzzle board **10**. Preferably, the first and second coupling elements **25**A, **26**A are magnetic elements adapted for magnetically attracting with each other. The first coupling elements **25**A are aligned in a ring shaped on the bottom surface **11** of the puzzle board **10**. The second coupling elements **26**A are provided on a top surface of the first ring member, i.e. the first moving member **21**, the first and second coupling elements **25**A, **26**A are aligned with each other and are magnetically attracted with each other to detachably couple the rotating assembly **20** at the bottom surface **11** of the puzzle board **10**.

[0029] Alternatively, as shown in FIG. **3**A, the rotating assembly **20** further includes one or more coupling elements **25**B provided on at least one of the bottom surface **11** of the puzzle board **10** and the first moving member **21** to detachably couple the rotating assembly **20** at the bottom surface **11** of the puzzle board **10**. In one embodiment, the coupling element **25**B is a self-adhering film or a self-sticking film provided on the first moving member **21** to detachably adhere on the bottom surface **11** of the puzzle board **10**. It is worth mentioning that the coupling element **25**B has a ring shape matching with the first moving member **21**, the coupling element **25**B is re-usable to detachably adhere on the bottom surface **11** of the puzzle board **10** without damaging the detachably adhere on the bottom surface **11** of the puzzle board **10**. It is appreciated that the coupling element **25**B can be applied on the bottom surface **11** of the puzzle board **10** to detachably adhere to the first moving member **21**.

[0030] As shown in FIGS. **1** and **4**, the movable puzzle platform further includes a supplement arrangement **30** configured not only for storing the puzzle pieces **100** before they are assembled, but also for allowing the player to preassemble and store a section of the puzzle figure with a group

of puzzle pieces **100**. In one embodiment, the supplement arrangement **30** has one or more drawer cavities **31** formed at sidewalls of the puzzle board **10** between the bottom surface **11** and the top surface **12** thereof and includes one or more section puzzle boards **32** slidably received in the drawer cavities **31** respectively. According to the preferred embodiment of the present invention, each of the section puzzle boards **32**, which is embodied as a puzzle drawer **32**, has a section puzzle surface with an anti-slipping layer **14** attached thereon to serve as section puzzle floor **321** for preassembling a group of puzzle pieces **100** to form a section of the puzzle figure and storing the puzzle pieces **100**.

[0031] In an embodiment, the drawer **32** includes a section puzzle floor **321** and four surrounding walls **323**. Each surrounding wall **323** protrudes from the section puzzle floor **321**, the four surrounding walls **323** and the section puzzle floor **321** together define a storage space **320**. The storage space **320** is configured to accommodate puzzle pieces **100** or puzzle tools, providing the puzzle board **10** with additional storage functionality. The four surrounding walls **323** of the drawer **32** completely enclose the section puzzle floor **321**. When the puzzle pieces **100** or the puzzle tools are stored in the storage space **320**, the surrounding walls **323** can prevent the puzzle pieces **100** or the puzzle tools from falling or sliding out.

[0032] In an embodiment, the drawer **32** includes an operating portion **322**. The operating portion **322** is arranged on an outer side of one of the surrounding walls **323**, and the surrounding wall **323** is located at a side of the drawer **32** adjacent to the opening. The operating portion **322** is configured to drive the drawer **32** to slide within the drawer cavity **31** by an external force, such that the drawer **32** can be pulled out from the drawer cavity **32** or pushed into the drawer cavity **32** for accessing or storing the puzzle pieces **100** or the puzzle tools. The operating portion **322** can be configured in different structures. For example, the operating portion **322** is configured as a handle. The handle protrudes from an outer side of the surrounding wall **323**, such that the player can grip the handle to apply pushing force or pulling force, enabling the drawer **32** to slide.

[0033] According to the preferred embodiment, the drawer cavities **31** are formed at the transverse sides of the puzzle board **10** respectively. Particularly, two drawer cavities **31** are spacedly formed at each of the transverse sides of the puzzle board **10**. In other words, two puzzle drawers **32** are slidably coupled at each of the transverse sides of the puzzle board **10**. Therefore, four puzzle drawers **32** are slidably coupled at the transverse sides of the puzzle board **10**. It is worth mentioning that each puzzle drawer **32** is independently actuated to slide in-and-out of the corresponding drawer cavity **31**. Since the puzzle drawers **32** are slidably coupled at the transverse sides of the puzzle board **10**, each puzzle drawer **32** is relatively long enough and each drawer cavity **31** is deep enough to retain the puzzle drawer **32** therein so as to prevent the puzzle drawer **32** being slid out of the drawer cavity **31** accidentally or unintentionally when moving the puzzle board **10** on the playing surface. Accordingly, a length of each puzzle drawer is slightly smaller than half of the length of the puzzle board **10** between the transverse sides thereof.

[0034] The supplement arrangement **30** further includes a drawer holder **33** provided at the puzzle board **10** to retain the puzzle drawers **32** in the drawer cavities **31** respectively. In one embodiment, the drawer holder **33** includes a first magnetic element **331** provided at an inner wall of the drawer cavity **31** and a second magnetic element **332** provided at the puzzle drawer **32** to magnetically attract with the first magnetic element **331** so as to retain the puzzle drawer **32** in the drawer cavity **31**. Due to the magnetically attracting force between the first and second magnetic elements **331**, **332**, the puzzle drawers **32** are held within the drawer cavities **31** respectively to prevent the puzzle drawer **32** being slid out of the drawer cavity **31** accidentally or unintentionally when moving the puzzle board **10** on the playing surface. When a pulling force is applied at one of the puzzle drawers **32** to overcome the magnetically attracting force, the puzzle drawer **32** can be pulled and slid out of the drawer cavity **31**.

[0035] As shown in FIG. **5**, the puzzle board **10** further includes a kickstand **15** pivotally coupled at the bottom surface **11** of the puzzle board **10**. Particularly, a connecting end **151** of the kickstand **15**

is pivotally coupled at the bottom surface **11** of the puzzle board **10** while a free end **152** of the kickstand **15** is adapted to pivotally fold from the puzzle board **10** to support on the playing surface. Therefore, the kickstand **15** is switchable between a deployed state and a folded state. In the deployed state, the free end **152** is positioned away from the bottom surface **11** of the puzzle board **10**. In the folded state, the free end **152** is positioned close to the bottom surface **11** of the puzzle board **10**. when the kickstand **15** is in the folded state, the puzzle board **10** is movable on the playing surface via the rotating assembly **20**. When the kickstand **15** is in the deployed state for supporting the puzzle board **10** on the playing surface, the puzzle board **10** is inclined and supported on the playing surface.

[0036] In an embodiment, a connecting end **151** of the kickstand **15** is disposed near the surrounding border wall **13**. In this way, the kickstand **15** can provide a better force-bearing fulcrum, which makes the puzzle board **10** more stable and prevents the puzzle board **10** from shaking or sliding when placed at an inclined angle. In this embodiment, the rotating assembly **20** is substantially located at the gravity center of the puzzle board **10**, and the kickstand **15** does not interfere with the rotating assembly **20**. Therefore, an inclined angle of the puzzle board **10** can be adjusted, and the puzzle board **10** can also self-rotate or move on the playing surface, resulting in greater flexibility of the movable puzzle platform when in use.

[0037] In one application, as shown in FIG. **6**, the movable puzzle platform of the present invention can be incorporated with the puzzle pieces **100** to form a puzzle game kit. Particularly, the area of the puzzle floor **101** matches with the area of the puzzle pieces **100** after the puzzle pieces **100** are assembled, such that the puzzle board **10** serves as a puzzle frame for framing the puzzle pieces **101** after the puzzle pieces **100** are assembled. Furthermore, the puzzle board **10** is constructed to have a plurality of board panels. Therefore, the board panels, the rotating assembly **20** and the puzzle pieces **100** are packed in a box. In order to play the puzzle pieces **100**, the board panels can be assembled edge-to-edge to form the puzzle board **10**. Then, the rotating assembly **20** can be coupled at the bottom side **11** of the puzzle board **10** to form the movable puzzle platform for the user to move the puzzle board **10** on the playing surface and to assemble the puzzle pieces **100** on the top surface **12** of the puzzle board **10**. Once the puzzle pieces **100** are completely assembled on the top surface **12** of the puzzle board **10**, the rotating assembly **20** can be detached from the bottom side **11** of the puzzle board **10**, such that the puzzle board **10** forms the puzzle frame for framing the puzzle pieces **100**.

[0038] One skilled in the art will understand that the embodiment of the present invention as shown in the drawings and described above is exemplary only and not intended to be limiting.

[0039] It will thus be seen that the objects of the present invention have been fully and effectively accomplished. The embodiments have been shown and described for the purposes of illustrating the functional and structural principles of the present invention and is subject to change without departure from such principles. Therefore, this invention includes all modifications encompassed within the spirit and scope of the following claims.

Claims

1. A movable puzzle platform, comprising: a puzzle board assembly comprising a puzzle board and a surrounding border wall, wherein the puzzle board comprises a top surface for placing a plurality of puzzle pieces thereon, the surrounding border wall is configured to surround edges of the top surface and protrude upward beyond the top surface, and the surrounding border wall is configured as an integral structure; a rotating assembly, wherein the puzzle board assembly is arranged on the rotating assembly, the puzzle board assembly is configured to self-rotate 360 degrees along with the rotating assembly.

2. The movable puzzle platform according to claim 1, wherein the puzzle board further comprises a supplement arrangement, the supplement arrangement comprises at least one drawer cavity and at

least one drawer, the at least one drawer cavity is formed in a sidewall of the puzzle board, the at least one drawer is configured to be received and to slide within the at least one drawer cavity.

3. The movable puzzle platform according to claim 2, wherein the puzzle board comprises a bottom surface, the surrounding border wall extends from the top surface toward the bottom surface to cover the sidewall of the puzzle board, at least one opening is defined on the surrounding border wall and is configured to be mated with the at least one drawer cavity, each drawer cavity is communicated with the at least one drawer cavity.

4. The movable puzzle platform according to claim 3, wherein the puzzle board comprises two longer longitudinal sidewalls and two shorter transverse sidewalls, each transverse sidewall has two drawer cavities, and the two drawer cavities are spaced apart from each other.

5. The movable puzzle platform according to claim 3, wherein each drawer of the at least one drawer comprises a section puzzle floor and four surrounding walls protruding from the section puzzle floor, the section puzzle floor and the four surrounding walls together define a storage space.

6. The movable puzzle platform according to claim 5, wherein the drawer comprises an operating portion, the operating portion is arranged on an outer side of a surrounding wall among the four surrounding wall, the surrounding wall is located close to the opening, the operating portion is configured to drive the drawer to slide by an external force.

7. The movable puzzle platform according to claim 6, wherein the operating portion is configured as a handle, the handle protrudes from an outer side of the surrounding wall.

8. The movable puzzle platform according to claim 2, wherein the supplement arrangement comprises a drawer holder, the drawer holder comprises a first magnetic element and a second magnetic element, the first magnetic element is arranged on a cavity wall of the drawer cavity, the second magnetic element is arranged on the drawer, the first magnetic element and the second magnetic element magnetically attract each other by opposite polarities to enable the drawer to be retained within the drawer cavity.

9. The movable puzzle platform according to claim 1, wherein the puzzle board assembly further comprises an anti-slipping layer, the top surface of the puzzle board is covered or partially covered by the anti-slipping layer.

10. The movable puzzle platform according to claim 5, wherein each drawer of the at least one drawer comprises an anti-slipping layer, a top surface of the section puzzle floor is covered or partially covered by the anti-slipping layer.

11. The movable puzzle platform according to claim 1, wherein the puzzle board assembly further comprises a kickstand, the kickstand comprises a connecting end and a free end, the connecting end is pivotally connected to a bottom surface of the puzzle board, the kickstand is movable between a deployed state and a folded state, in the deployed state, the free end is away from the bottom surface of the puzzle board; in the folded state, the free end is close to the bottom surface of the puzzle board.

12. The movable puzzle platform according to claim 11, wherein the connecting end of the kickstand is arranged near the surrounding border wall.

13. The movable puzzle platform according to claim 1, wherein the rotating assembly comprises a first moving member, a second moving member, and a first bearing unit arranged between the first moving member and the second moving member, the first moving member is configured to rotate relative to the second moving member through the first bearing unit.

14. The movable puzzle platform according to claim 13, wherein an outer circumferential surface of the first moving member is engaged with an inner circumferential surface of the second moving member via the first bearing unit to enable the second moving member to be coaxially rotated with respect to the first moving member; wherein the first moving member comprises a first horizontal flat base and a first rolling surface arranged along the first horizontal flat base; and wherein the first horizontal flat base comprises a first overlapping portion overlapped with the first bearing unit in a

thickness direction of the board accessible unit, and an outer surface of the first overlapping portion has a substantially flat shape.

15. The movable puzzle platform according to claim 13, wherein the rotating assembly further comprises a second bearing unit, the second bearing unit is arranged at a bottom side of the second moving member, the rotating assembly is configured to slide on a playing surface in any direction via the second moving member.