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(54) **MOVABLE PUZZLE PLATFORM**

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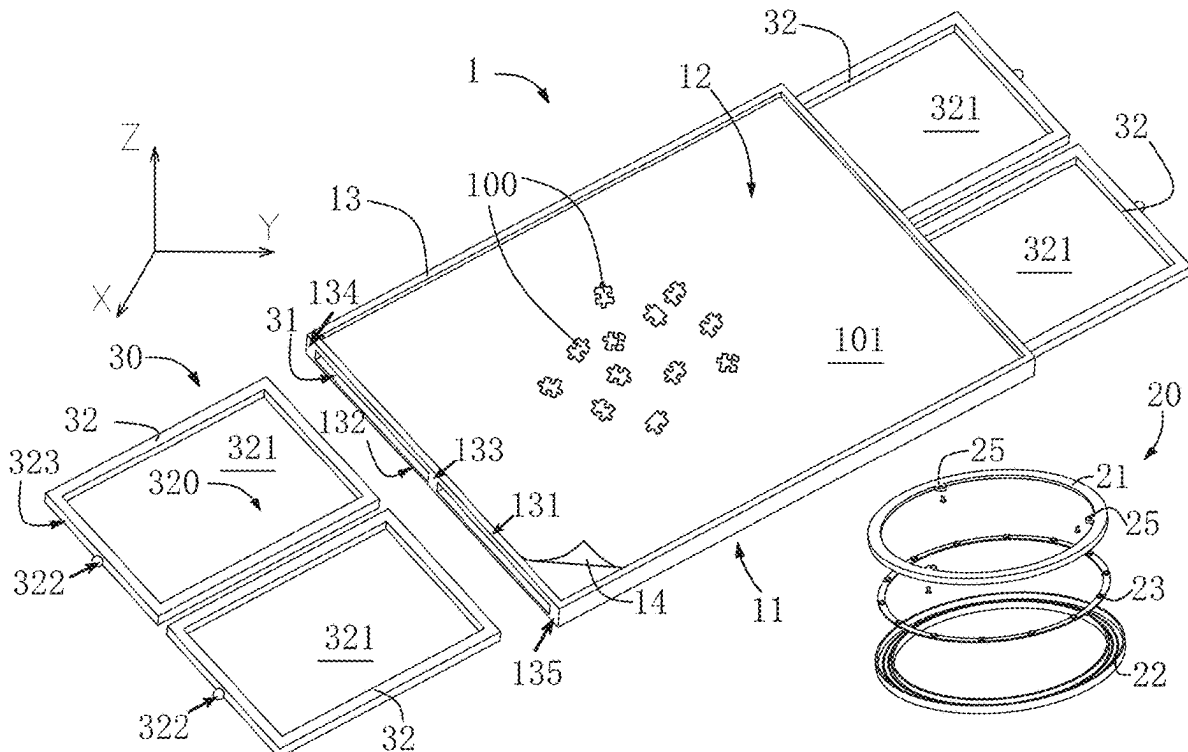
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ABSTRACT

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.



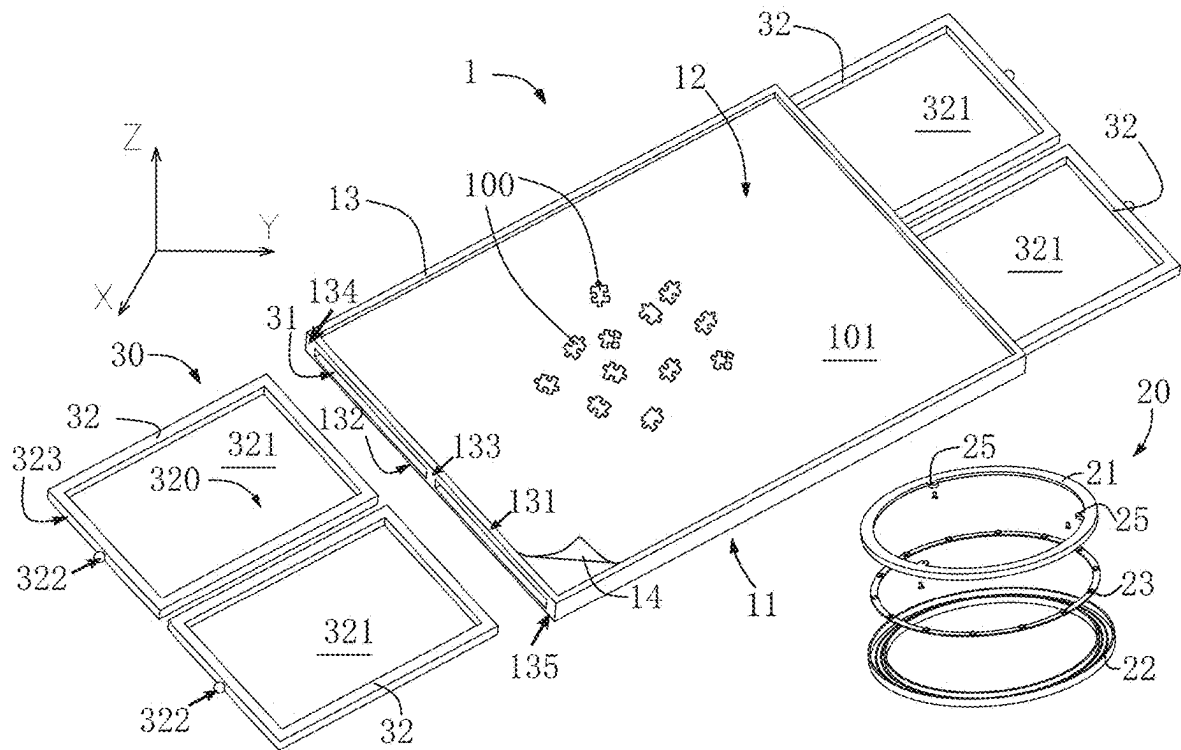


Fig. 1

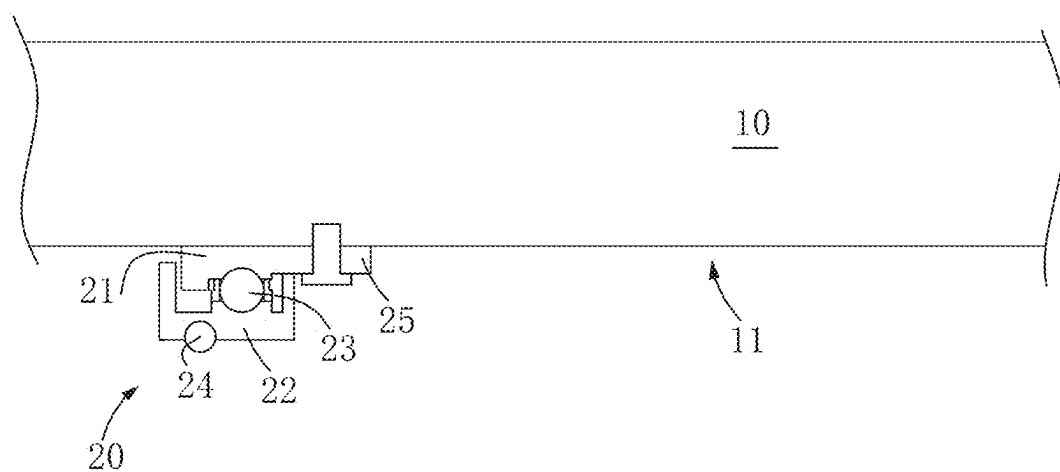


Fig. 2

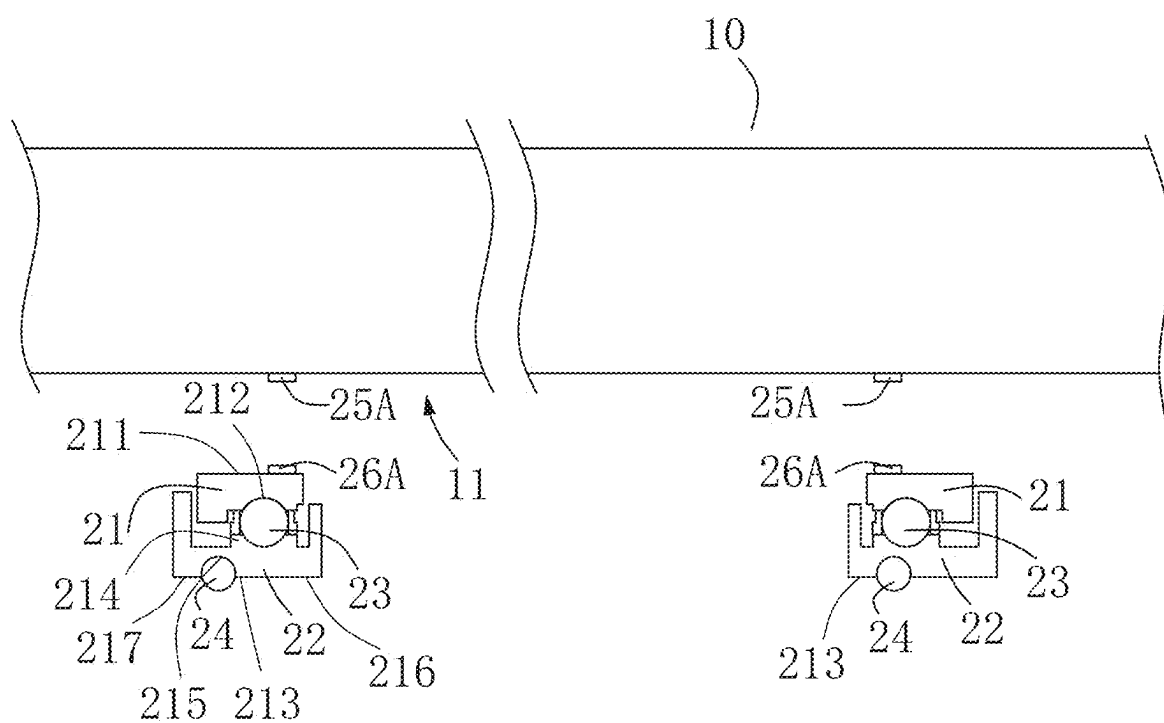


Fig. 3

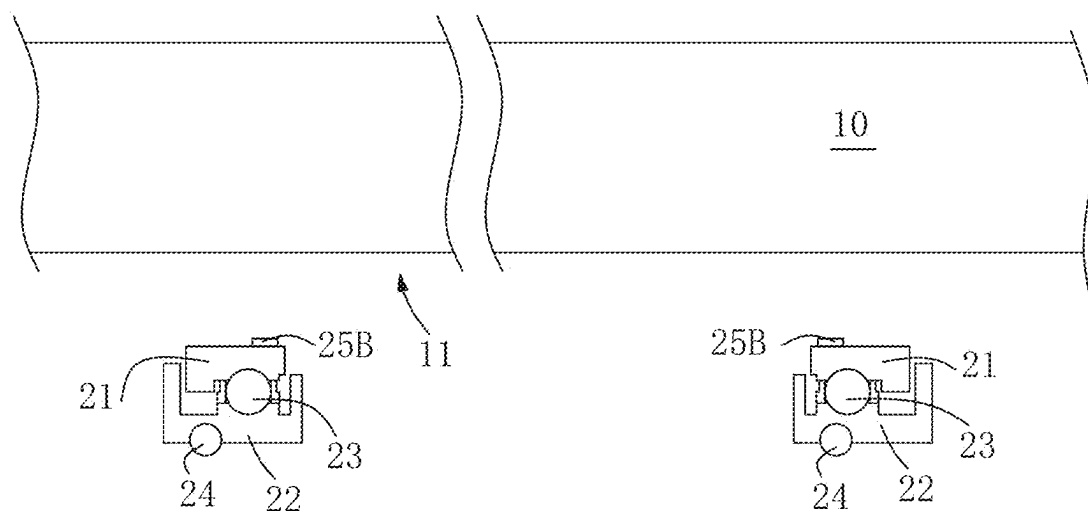


Fig. 3A

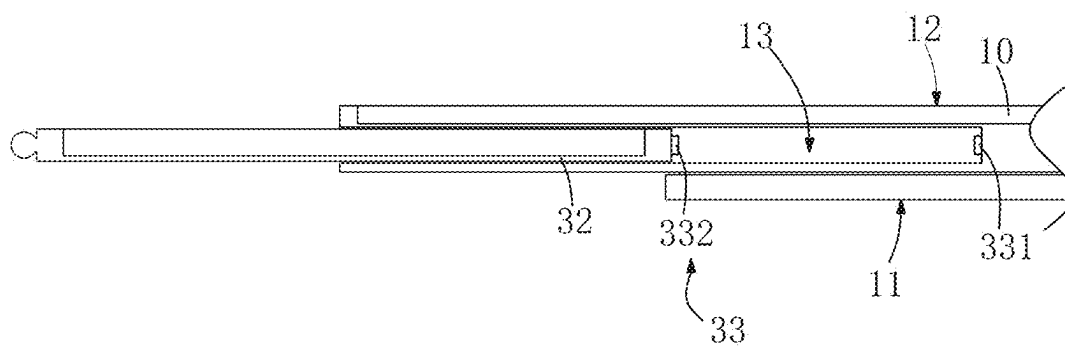


Fig. 4

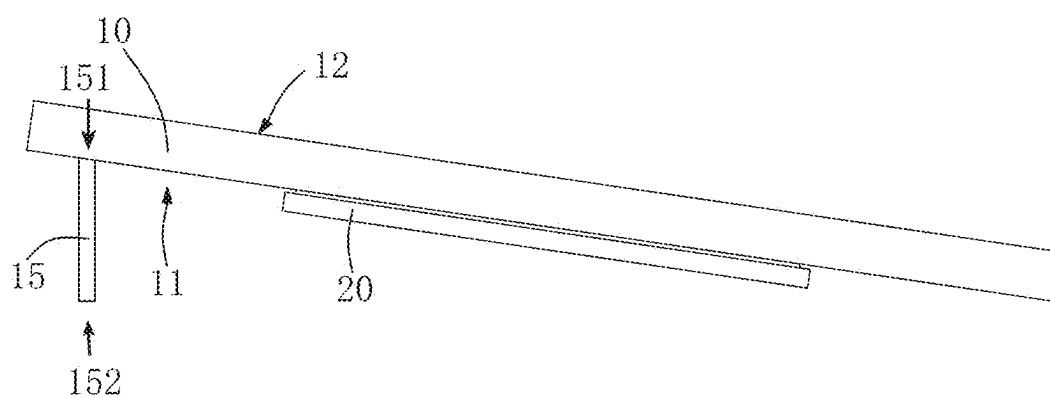


Fig. 5

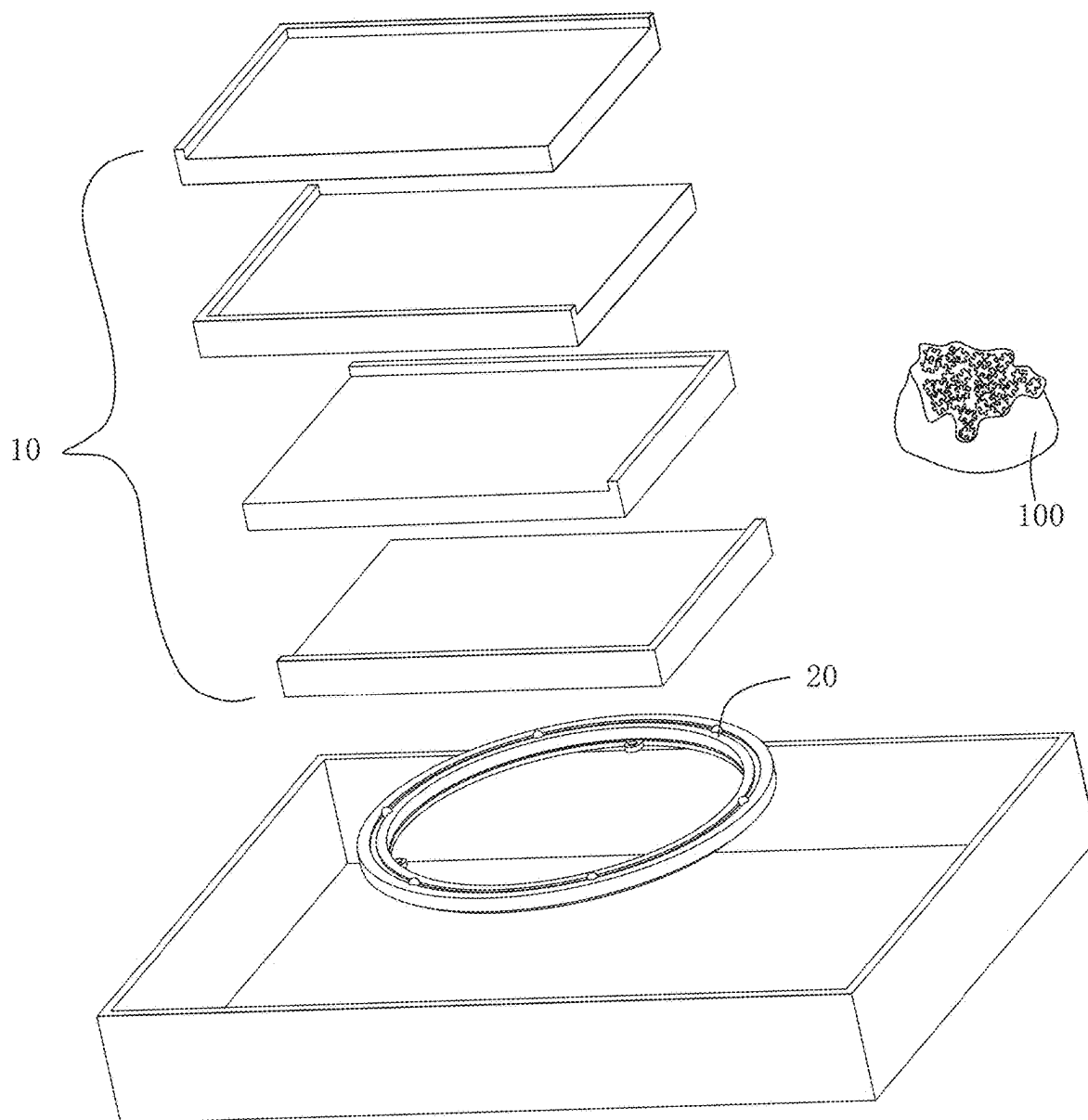


Fig. 6

MOVABLE PUZZLE PLATFORM

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 play 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.

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. 3A 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 assemble 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 40er of the first moving member 21 is smaller than a diabase 40er 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 than 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 3A, 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 25A spacedly provided on the bottom surface 11 of the puzzle board 10, and one or more second coupling elements 26A spacedly provided at the first moving member 21 to detachably couple the first coupling elements 25A 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 25A, 26A are magnetic elements adapted for magnetically attracting with each other. The first coupling elements 25A are aligned in a ring shaped on the bottom surface 11 of the puzzle board 10. The second coupling elements 26A are provided on a top surface of the first ring member, i.e. the first moving member 21, the first and second coupling elements 25A, 26A 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. 3A, the rotating assembly 20 further includes one or more coupling elements 25B 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 25B 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 25B has a ring shape matching with the first moving member 21, the coupling element 25B 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 25B 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.

What is claimed is:

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.

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