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WALL PANEL SYSTEM

Abstract

A wall panel system includes a panel, a first bracket coupleable to the panel or a wall, a second bracket coupleable to the panel or the wall, and one or more panel brackets. The panel may include a plurality of apertures that are substantially rectangular shaped and systematically spaced apart. The plurality of apertures may be configured to receive the one or more panel brackets that may be coupled to shelves or other holding devices/platforms so as to allow a user to store or hang numerous items.

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Background/Summary

CROSS-REFERENCE TO RELATED APPLICATIONS [0001] This application claims the benefit of U.S. Provisional Application Ser. No. 63/551,653, filed on Feb. 9, 2024, which is incorporated herein by reference.

TECHNICAL FIELD

[0002] The present disclosure relates to a panel that mounts to a wall. More particularly, the present disclosure relates to a panel that mounts to a wall and receives numerous components to store/receive items.

BACKGROUND

[0003] Home and business owners have been hanging items on walls for many years. Some of these individuals hang items on walls for practical reasons, such as adding clocks to tell time; for decorative purposes, such as adding paintings; or both. Overall, individuals can manifest personal preference and their creativity in a room by hanging items on a wall.

[0004] A majority of individuals are limited to using, and have used for many years, a simple nail, bracket, wire, or some combination thereof to hang items on walls. These hanging devices are often difficult to use and to get level, so as to have a level item hanging on the wall. Furthermore, if individuals desire to rearrange shelves, pictures, etc., they have to remove them and fix any holes left by the hanging devices, which requires putty and sometimes paint to mask evidence of the holes. To address some of these issues, companies have developed brackets that extend across a predetermined length of wall that may receive numerous paintings, for example. While these brackets may solve some issues, they are often visually unpleasant and allow for only one direction of movement, whether lateral or vertical.

[0005] Accordingly, there is a need for an easy to use and modular system that allows an individual to move hanging items horizontally, vertically, or to numerous other locations on a wall. The present invention seeks to solve these and other problems.

SUMMARY OF EXAMPLE EMBODIMENTS

[0006] In one embodiment, a wall panel system comprises a panel, a first bracket coupleable to a wall, a second bracket coupleable to the panel, and one or more panel brackets. The panel may include a plurality of apertures that are substantially rectangular shaped and systematically spaced apart. The plurality of apertures may be configured to receive the one or more panel brackets that may be coupled to shelves or other holding devices/platforms so as to allow a user to store or hang items.

[0007] The first bracket may be coupled to, for example, an upper portion of the panel and a lower portion of the panel via fasteners that pass through a plurality of first and second side apertures. The first bracket may be coupled to the panel so that a first channel is opened downward. The second bracket may be coupled to, for example, an upper portion of the wall and a lower portion of the wall via fasteners that pass through a plurality of third and fourth side apertures. The second bracket may be coupled to the wall so that a second channel is opened upward. Accordingly, to secure the panel with the first bracket(s) to the wall, having the second brackets, a user may slide a first side of the first bracket into the second channel, with a second side of the first bracket contacting the panel, while a third side of the second bracket may be positioned into the first channel, with a fourth side of the second bracket contacting the wall. It will be appreciated that a first edge of the first side may mirror the shape of the second channel so as to allow the first edge to mate with the second channel and rest on a second channel wall, and a second edge of the third side may mirror the shape of the first channel so as to allow the second edge to mate with the first channel and contact a first channel wall, thereby securing the panel to the wall. To remove the panel, a user may simply lift up on the panel.

Description

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] FIG. 1 illustrates a perspective view of a wall panel system;

[0009] FIG. 2 illustrates a perspective view of a panel of a wall panel system;

[0010] FIG. 3 illustrates a front elevation view of a panel of a wall panel system;

[0011] FIG. 4 illustrates a perspective view of a first bracket of a wall panel system;

[0012] FIG. 5 illustrates a front elevation view of a first bracket of a wall panel system;

[0013] FIG. 6 illustrates a front elevation view of a first bracket of a wall panel system;

[0014] FIG. 7 illustrates a perspective view of a first bracket of a wall panel system;

[0015] FIG. 8 illustrates a perspective view of a second bracket of a wall panel system;

[0016] FIG. 9 illustrates a side elevation view of a wall panel system;

[0017] FIG. 10 illustrates a perspective view of a panel bracket of a wall panel system;

[0018] FIG. 11 illustrates a perspective view of a third bracket of a wall panel system;

[0019] FIG. 12 illustrates a perspective view of a fourth bracket of a wall panel system;

[0020] FIG. 13 illustrates a side elevation view of a third and a fourth bracket of a wall panel system;

[0021] FIG. 14 illustrates a rear perspective view of a panel of a wall panel system;

[0022] FIG. 15 illustrates a front perspective view of a first member of a wall panel system; and

[0023] FIG. 16 illustrates a perspective view of a wall panel system.

DETAILED DESCRIPTION OF EXAMPLE EMBODIMENTS

[0024] While embodiments of the present disclosure may be subject to various modifications and alternative forms, specific embodiments have been shown by way of example in the drawings and will be described in detail herein. However, the present disclosure is not intended to be limited to the particular features, forms, components, etc. disclosed. Rather, the present disclosure will cover all modifications, equivalents, and alternatives falling within the scope of the present disclosure.

[0025] Reference to the invention, the present disclosure, or the like are not intended to restrict or limit the invention, the present disclosure, or the like to exact features or steps of any one or more of the exemplary embodiments disclosed herein. References to “one embodiment,” “an embodiment,” “alternate embodiments,” “some embodiments,” and the like, may indicate that the embodiment(s) so described may include a particular feature, structure, or characteristic, but not every embodiment necessarily includes the particular feature, structure, or characteristic.

[0026] Any arrangements herein are meant to be illustrative and do not limit the invention's scope. Although specific terms are employed herein, they are used in a generic and descriptive sense only and not for purposes of limitation. Unless otherwise defined herein, such terms are intended to be given their ordinary meaning not inconsistent with that applicable in the relevant industry and without restriction to any specific embodiment hereinafter described.

[0027] It will be understood that the steps of any such processes or methods are not limited to being carried out in any particular sequence, arrangement, or with any particular graphics or interface. In fact, the steps of the disclosed processes or methods generally may be carried out in various, different sequences and arrangements while still being in the scope of the present invention. Certain terms are used herein, such as “comprising” and “including,” and similar terms are meant to be “open” and not “closed” terms. These terms should be understood as, for example, “including, but not limited to.”

[0028] As previously described, there is a need for an easy to use and modular system that allows an individual to move hanging items horizontally, vertically, or to numerous other locations on a wall. The present invention seeks to solve these and other problems.

[0029] Hanging items on walls is important to many people for numerous reasons. Some of these reasons may include hanging shelves for storage or displays, or for hanging aesthetically pleasing items. To hang items on walls, most people are limited to a simple nail, bracket, wire, or some combination thereof. These hanging devices are often difficult to use, cause frustrations, and limit

what items can be placed on walls.

[0030] The wall panel system described herein includes a panel, one or more brackets that fasten to a wall and the panel. Accordingly, a user may easily couple the one or more brackets to the wall and panels which allows the panel to be removably attachable to the wall. Once the panel is in place, the user may place one or more panel brackets on the wall that can be configured to store numerous items. It will be appreciated that the system allows users to store numerous items and quickly move the stored items to various locations on the panel via the one or more panel brackets.

[0031] As shown in FIGS. 1-3, in one embodiment, a wall panel system **100** comprises a panel **102**, at least two first brackets **104A** (FIG. 9) coupleable to a wall **106**, at least two second brackets **104B** (FIG. 9) coupleable to the panel **102**, and one or more panel brackets **108A**, **108B**, **108C**. The panel **102** may be generally rectangular shaped. The panel **102** may have a front side **110**, a back side **112**, a top edge **114**, a bottom edge **116**, a first side edge **118**, and a second side edge **120**. In some embodiments, the panel **102** may be generally square shaped, circular, or any other shape. The panel **102** may be 4'×8'. The panel may fit 16" or 24" wall stud spacing with 4" width increments as well as 6" length increments. In other embodiments, the panel **102** may have a variety of lengths, widths, and heights. The panel **102** may be manufactured out of wood. Other materials for the panel **102** may include plastic, aluminum, or any other type of material used in the industry.

[0032] Further, the panel **102** may include a plurality of apertures **122** that are substantially rectangular shaped and systematically spaced apart. The plurality of apertures **122** may be configured to receive the one or more panel brackets **108A**, **108B**, **108C** that may be coupled to, for example, shelves **124** or other holding devices/platforms so as to allow a user to store or hang items, which will be discussed herein. It could be envisioned that the plurality of apertures **122** may, in some embodiments, be different shapes, patterns, and/or sizes across the panel other than what is illustrated.

[0033] As illustrated in FIGS. 4-9, the first and second brackets **104A**, **104B** may be used to couple the panel **102** to the wall **106**. As shown in FIGS. 4-5, 7, and 9, the first bracket **104A** may have a first side **126** and a second side **128**, the second side **128** being taller than the first side **126**. A first channel **130** may be positioned between the first side **126** and the second side **128**. The first bracket **104A** may comprise a first aperture **132** that runs the length of the first bracket **104A**. The first aperture **132** may be separated from the first channel **130** by a first channel wall **134**. The first side **126** includes a plurality of first side apertures **136**, with the first side apertures **136** passing from the first side **126** into the first aperture **132** and out of the second side **128**. The second side **128** includes a plurality of second side apertures **138** that are positioned below the first channel **130**. It will be appreciated that while two brackets are being discussed, one or more than two brackets may be used without departing herefrom.

[0034] As shown in FIGS. 8-9, the second bracket **104B** may have a third side **140** and a fourth side **142**, the fourth side **142** being taller than the third side **140**. A second channel **144** may be positioned between the third side **140** and the fourth side **142**. The second bracket **104B** may comprise a second aperture **146** that runs the length of the first bracket **104B**. The second aperture **146** may be separated from the second channel **144** by a second channel wall **148**. The third side **140** includes a plurality of third side apertures **150**, with the third side apertures **150** passing from the third side **140** into the second aperture **146** and out of the fourth side **142**. The fourth side **142** includes a plurality of fourth side apertures **152** that are positioned below the second channel **144**. It will be appreciated that the first and second brackets **104A**, **104B** may be interchangeable. It will further be appreciated that while two brackets are being discussed, one or more than two brackets may be used without departing herefrom.

[0035] As shown in FIG. 9, the first brackets **104A** may be coupled to, for example, an upper portion **154** (FIG. 3) of the panel **102** and a lower portion **156** (FIG. 3) of the panel **102** via fasteners (e.g., screws) that pass through the plurality of first and second side apertures **136**, **138**. In

some embodiments, the first bracket **104A** may be positioned anywhere on the panel **102**. The first bracket **104A** may be coupled to the panel **102** so that the first channel **130** is opened downward. The second side **128** may contact the panel **102**. The second bracket **104B** may be coupled to, for example, an upper portion **158** (FIG. 1) of the wall **106** and a lower portion **160** (FIG. 1) of the wall **106**. In some embodiments, the second bracket **104B** may be positioned anywhere on the wall **106** via fasteners (e.g., screws). The second bracket **104B** may be coupled to the wall **106** so that the second channel **144** is opened upward. The fourth side **142** may contact the wall **106**.

[0036] To secure the panel **102** with the first bracket(s) **104A** to the wall **106** with the second bracket(s) **104B**, a user may slide the first side **126** of the first bracket **104A** into the second channel **144** while the third side **140** of the second bracket **104B** may be positioned into the first channel **130**. It will be appreciated that a first edge **162** of the first side **126** may match the shape of the second channel **144** so as to allow the first edge **162** to properly mate with the second channel **144** and rest on the second channel wall **148**, and a second edge **164** of the third side **140** may match the shape of the first channel **130** so as to allow the second edge **164** to properly mate with the first channel **130** and contact that first channel wall **134**, thereby securing the panel **102** to the wall **106**. To remove the panel **102**, a user may simply lift up on the panel **102** to detach the first bracket(s) **104A** from the second bracket(s) **104B**.

[0037] As shown in FIGS. 1 and 10, once the panel(s) **102** are coupled to the wall **106**, the plurality of apertures **122** on the panel **102** may receive the one or more panel brackets **108A**, **108B**, **108C**. The one or more panel brackets **108A**, **108B**, **108C** may comprise a first panel bracket **108A**, a second panel bracket **108B**, and a third panel bracket **108C**. It will be appreciated that while only three brackets are shown, there may be numerous other brackets that may be used with the panel **102**, or shelves, or other hanging/holding/storing devices. The first panel bracket **108A** may comprise a first prong **166** and a second prong **168** that protrude from the panel **102** so as to receive a hat, coat, etc. The first panel bracket **108A** may include one or more fingers that are inserted into one of the plurality of panel apertures **122** and secured therein. The second panel bracket **108B** may include a first arm **170A**, **170B**, a second arm **172A**, **172B**, and the shelf **124** positioned between the first arm **170A**, **170B** and the second arm **172A**, **172B**. The second panel bracket(s) **108B** may comprise one or more fingers that couple to edges of the plurality of panel apertures **122**. Illustrated in FIG. 10, the third panel bracket **108C** may include a first prong **174**, which may each receive a hat, coat, etc., that protrudes from the panel **102** when secured therein. On a side opposite the first prong **174**, the third panel bracket **108C** may include a first finger **176** and a first bracket notch **178** that is interposed between the first prong **174** and the first finger **176**. The third panel bracket **108C** may also include a second finger **180** and a second notch **182** that is interposed between a lower finger **184** of the first prong **174** and the second finger **180**. It will be understood that the first and second notches **178**, **182** can rest on the edges of one of the apertures of the plurality of panel apertures **122**, thereby allowing the third panel bracket **108C** to be secured to the panel **102**. While two notches **178**, **182** are shown, it will be understood that one notch (e.g., an upper notch or a lower notch) may be used on any of the panel brackets so as to be secured to the panel **102** via the single notch.

[0038] As shown in FIGS. 11-13, in one embodiment, a first bracket **200A** and a second bracket **200B** both of which may be used with and/or interact with the panel **102**. The first and second brackets **200A**, **200B** may be used to couple the panel **102** to the wall **106** (FIG. 9). The first bracket **200A** may have a first side **202** and a second side **204**, the first side **202** being taller than the second side **204**. The first side **202** may comprise a first outer surface channel **206** that runs the length of the first bracket **200A**. The second side **204** may include a first juttied portion **208**. A first channel **210** may be positioned between the first side **202** and the second side **206**. The first bracket **200A** may comprise a first aperture **211** that runs the length of the first bracket **200A**. The first aperture **211** may be separated from the first channel **210** by a first channel wall **212**. The first side **202** includes a first notch **214** that runs the length of an inner surface of the first side **202**. The

second side **204** includes a second notch **216** that runs the length of an outer surface of the second side **204**. The first and second notches/grooves **214**, **216** may be V-shaped notches that are configured to receive fasteners (e.g., screws). It will be appreciated that the first and second notches **214**, **216** are configured to receive a drill bit. That is, a user can drill holes easily in the notches **214**, **216** so as to anchor the first bracket **200A** to the wall or panel. This allows a user to drill holes spaced apart a distance to match wall studs, if coupling to the wall. In some embodiments, the first bracket **200A** may include pre-drilled holes.

[0039] The second bracket **200B** may have a third side **218** and a fourth side **220**, the third side **218** being taller than the fourth side **220**. The third side **218** may comprise a second outer surface channel **222** that runs the length of the second bracket **200B**. The fourth side **220** may include a second jutted portion **224**. A second channel **226** may be positioned between the third side **218** and the fourth side **220**. The second bracket **200B** may comprise a second aperture **228** that runs the length of the second bracket **200B**. The second aperture **228** may be separated from the second channel **226** by a second channel wall **230**. The third side **218** includes a third notch **232** that runs the length of an inner surface of the third side **218**. The fourth side **220** includes a fourth notch **234** that runs the length of an outer surface of the fourth side **220**. The third and fourth notches **232**, **234** may be V-shaped notches that are configured to receive fasteners (e.g., screws). It will be appreciated that the third and fourth notches **232**, **234** are configured to receive a drill bit. That is, a user can drill holes easily in the third and fourth notches **232**, **234** so as to anchor the second bracket **200B** to the wall or panel. This allows a user to drill holes spaced apart a distance to match wall studs, if coupling to the wall. In some embodiments, the second bracket **200B** may include pre-drilled holes.

[0040] The first bracket **200A** may be coupled to, for example, an upper portion **154** (FIG. 3) of the panel **102** and a lower portion **156** (FIG. 3) of the panel **102** via fasteners. The first bracket **200A** may be coupled to the panel **102** so that the first channel **210** is opened downward. The first side **202** may contact the panel **102**. The second bracket **200B** may be coupled to, for example, an upper portion **158** (FIG. 1) of the wall **106** and a lower portion **160** (FIG. 1) of the wall **106**. The second bracket **200B** may be coupled to the wall **106** so that the second channel **226** is opened upward. The third side **218** may contact the wall **106**. The first and second brackets **200A** and **200B** may be spaced apart at the same distances on the panel **102** and the wall **106** so that they may interact with each other.

[0041] To secure the panel **102** with the first bracket(s) **200A** to the wall **106** with the second bracket(s) **200B**, a user may slide the second side **204** of the first bracket **200A** into the second channel **226** while the fourth side **220** of the second bracket **200B** may be positioned into the first channel **210**. It will be appreciated that a first edge **236** of the second side **204** may mirror the shape of the second channel **226** so as to allow the first edge **236** to properly mate with the second channel **226** and rest on the second channel wall **230**, and a second edge **238** of the fourth side **220** may mirror the shape of the first channel **210** so as to allow the second edge **238** to properly mate with the first channel **210** and contact that first channel wall **212**, thereby securing the panel **102** to the wall **106**. To remove the panel **102**, a user may simply lift up on the panel **102**. Similar to the first and second brackets **104A**, **104B** the first and second brackets **200A**, **200B** may be interchangeable.

[0042] As shown in FIG. 14-15, in one embodiment, the panel **102** may receive a first member **300A**, a second member **300B**, and a third member **300C**. While three members are shown, it will be understood that any number of members may be utilized whether one or more than three. The first, second, and third members **300A-300C** may couple to the backside **112** of the panel **102** via fasteners (e.g., screws). The first, second, and third members **300A-300C** may each be generally square shaped. However, other embodiments may include any other shape, such as circular. Further, the first, second, and third members **300A-300C** may be printed from a three-dimensional printer, vacuum molded, or manufactured by any other means known in the art. The first member

300A, on a front side, may include a sloped section **302**. Similarly, the second and third members **300B** and **300C** may also include sloped section, even though they are not shown in FIG. 15. When multiple panels are butted up against or contact each other on their edges, the members **300A-300C** assist a user in guiding the panels **102** and help front sides **110** of the panels **102** be flush or level with each other. In addition, the sloped section **302** provides a smooth transition to the panels **102** contacting each other.

[0043] It will be appreciated that the system **100** may be modular so as to fit the desires and needs of any user when it comes to storing or hanging items. Furthermore, each user can easily adjust, remove, and configure each of the components in the system **100** in numerous ways.

[0044] As shown in FIG. 16, a wall panel system **400** that is transportable may include a base **402** with front wheels **404A**, **404B** and rear wheels (not shown but the same as the front wheels). Extending upward from the base **402** may be a first side wall **406**, a second side **408** wall spaced apart and parallel to the first side wall **406**, and a rear wall **410** perpendicular to and interposed between the first side wall **406** and the second side wall **408**. The first side wall **406** may include a plurality of first apertures **412**. The second side wall **408** may include a plurality of second apertures **414**. The third side wall **410** may include a plurality of third apertures **416**. Each of the walls **406**, **408**, **410**, include multiple sections. However, in some embodiments, the walls may be manufactured out of a single section. It will be appreciated that the first, second, and third apertures **412**, **414**, **416** may receive one or more panel brackets **108A-108C**. A user can transport the system **400**, for example, in a garage where a user may store tools, clothing, or any other item via the one or more panel brackets **108A-108C**.

[0045] Further, in some embodiments, the wall panel system may be configured to be a transportable island or any other configuration whether mobile or stationary.

[0046] It will be understood that while various embodiments have been disclosed herein, other embodiments are contemplated. Further, certain embodiments of the present disclosure may include, incorporate, or otherwise comprise properties or features described in other embodiments. Consequently, various features of certain embodiments can be compatible with, combined with, included in, and/or incorporated into other embodiments of the present disclosure. Therefore, disclosure of certain features or components relative to a specific embodiment of the present disclosure should not be construed as limiting the application or inclusion of said features or components to the specific embodiment unless stated. As such, other embodiments can also include said features, components, members, elements, parts, and/or portions without necessarily departing from the scope of the present disclosure.

Claims

1. A wall panel system comprising: one or more panels coupleable to a wall; one or more first brackets coupleable to the one or more panels or wall; one or more second brackets coupleable to the wall or the one or more panels; one or more panel brackets removably attachable to the one or more panels; wherein the one or more first brackets are removably attachable to the one or more second brackets to couple the one or more panels to the wall.
2. The wall panel system of claim 1, wherein the one or more panels comprise a plurality of panel apertures systematically spaced apart.
3. The wall panel system of claim 2, wherein the plurality of apertures is substantially rectangular in shape.
4. The wall panel system of claim 1, wherein the plurality of panel apertures receives the one or more panel brackets.
5. The wall panel system of claim 1, wherein the one or more first brackets comprise a first side and a second side, with the second side being taller than the first side.
6. The wall panel system of claim 5, wherein the first side comprises a first outer surface channel

that runs the length of the first bracket.

7. The wall panel system of claim 5, wherein the second side comprises a first jugged portion.

8. The wall panel system of claim 1, wherein a first channel may be positioned between a first side and a second side of the one or more first brackets.

9. The wall panel system of claim 5, wherein the first side comprises a first notch that runs the length of an inner surface thereof.

10. The wall panel system of claim 5, wherein the second side comprises a second notch that runs the length of an outer surface thereof.

11. The wall panel system of claim 1, wherein the one or more second brackets comprise a third side and a fourth side, with the fourth side being taller than the third side.

12. The wall panel system of claim 11, wherein the third side comprises a second outer surface channel that runs the length of the first bracket.

13. The wall panel system of claim 11, wherein the fourth side comprises a second jugged portion.

14. The wall panel system of claim 1, wherein a second channel may be positioned between a third side and a fourth side of the one or more second brackets.

15. The wall panel system of claim 11, wherein the third side comprises a third notch that runs the length of an inner surface thereof.

16. The wall panel system of claim 11, wherein the fourth side comprises a fourth notch that runs the length of an outer surface thereof.

17. A wall panel system comprising: one or more panels coupleable to a wall, the one or more panels comprising a plurality of panel apertures; at least two first brackets, with one being coupleable to an upper portion of the panels and the other being coupleable to a lower portion of the panels, the at least two first brackets comprising: a first side and a second side, with the second side being taller than the first side, a first channel may be positioned between a first side and a second side of the one or more first brackets, and a first edge on the second side; at least two second brackets coupleable to the wall, with one being coupleable to an upper portion of the wall and the other being coupleable to a lower portion of the wall, the at least two second brackets comprising: a third side and a fourth side, with the fourth side being taller than the third side, a second channel may be positioned between a third side and a fourth side of the one or more second brackets, and a second edge on the fourth side positionable in the first channel; a plurality of panel brackets removably attachable to the plurality of panel apertures.

18. The wall panel system of claim 17, wherein the plurality of panel brackets comprises a first panel bracket, a second panel bracket, and a third panel bracket.

19. The wall panel system of claim 17, wherein the at least two first brackets coupled to the panel are removably attachable to the at least two second brackets coupled to the wall.

20. A wall panel system comprising: one or more panels coupleable to a wall, the one or more panels comprising a plurality of panel apertures; at least two first brackets, with one being coupleable to an upper portion of the panels and the other being coupleable to a lower portion of the panels, the at least two first brackets comprising: a first side and a second side, with the second side being taller than the first side, a first channel may be positioned between a first side and a second side of the one or more first brackets, and a first edge on the second side; at least two second brackets coupleable to the wall, with one being coupleable to an upper portion of the wall and the other being coupleable to a lower portion of the wall, the at least two second brackets comprising: a third side and a fourth side, with the fourth side being taller than the third side, a second channel may be positioned between a third side and a fourth side of the one or more second brackets, and a second edge on the fourth side positionable in the first channel; one or more panel brackets removably attachable to the plurality of panel apertures; and one or more members that align the one or more panels.
