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(54) Title: UNIVERSAL RECEPTACLE FACEPLATE ASSEMBLY

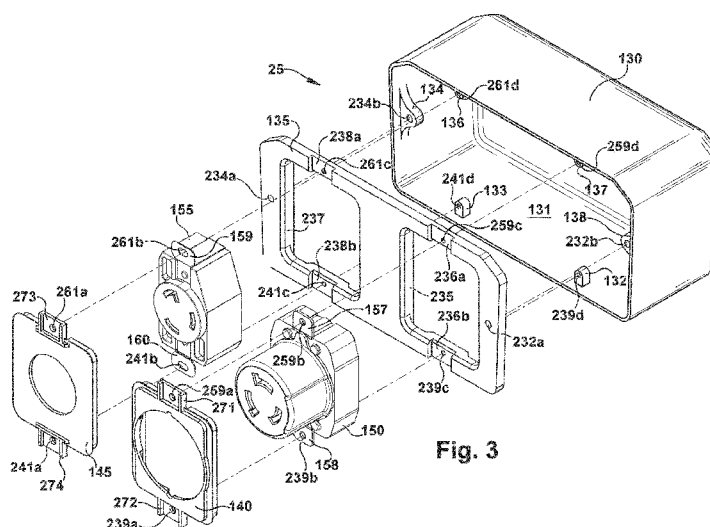


Fig. 3

(57) Abstract: Systems and other embodiments associated with a universal faceplate assembly (25) are described. According to one embodiment, a faceplate (135) includes a substantially planar plate base configured to mount on a wiring enclosure (130). At least one opening (235, 237) in the plate base is configured receive a receptacle (150, 155). The opening is configured to receive receptacles of a first receptacle type (150) or a second receptacle type (155). The faceplate also includes a faceplate notch (236a, 236b, 238a, 238b) in a front surface of the plate base configured to receive a receptacle tab (157, 158, 159, 160). The receptacle tab is disposed on receptacles of the first receptacle type or the second receptacle type. The receptacle tab is configured to allow a fastener to pass through the faceplate notch and the receptacle tab to attach the receptacle to the faceplate.

UNIVERSAL RECEPTACLE FACEPLATE ASSEMBLY

CROSS-REFERENCE TO RELATED APPLICATION

This application claims the benefit of U.S. Patent Application
5 Serial No. 13/550,764, filed July 17, 2012, which is incorporated by reference
herein.

BACKGROUND

[0001] Marine power pedestals provide access to utilities, such as
10 electrical power, to docked marine vessels. Standard marine power pedestals
have hard wired electrical receptacles of specific amperage. Typical
amperages provided by a marine pedestal include 20A service, 30A service,
and 50A service. Each type of receptacle has its own configuration. Because
the receptacles are not intended to be changed, the casing of the marine
15 power pedestal encloses the electric receptacles. This limits the amperage of
the receptacles to the amperage of the receptacles originally installed, despite
vessels using the docking facilities having different amperage requirements
and needs. The power pedestals may include special mounting features for
the specific types of receptacles that are to be installed in the pedestal. The
20 receptacles are protected by covers that are molded with the casing. The
covers are designed based on the dimensions of the hardwired electrical
receptacles.

SUMMARY

25 [0002] In one embodiment, a faceplate includes a substantially planar plate
base configured to mount on a wiring enclosure. At least one opening in the
plate base is configured receive a receptacle. The opening is configured to
receive receptacles of a first receptacle type or a second receptacle type.
The faceplate also includes a faceplate notch in a front surface of the plate

base configured to receive a receptacle tab. The receptacle tab is disposed on receptacles of the first receptacle type or the second receptacle type. The receptacle tab is configured to allow a fastener to pass through the faceplate notch and the receptacle tab to attach the receptacle to the faceplate.

5 **[0003]** In one embodiment, an electrical enclosure assembly includes an enclosure configured to house one more receptacles and associated wiring. The electrical enclosure assembly also includes a faceplate having a plate base with a front surface and at least one opening configured receive a receptacle and a faceplate notch. The faceplate notch has a faceplate notch
10 hole, and the faceplate notch is configured to align with a receptacle tab disposed on the receptacle. The receptacle tab has a receptacle hole. The electrical enclosure assembly also includes a cover having a cover tab with a cover hole. The cover is configured to be seated over the receptacle. The electrical enclosure assembly further includes a fastener configured to couple
15 the faceplate, the receptacle, the enclosure, and the cover by passing through the faceplate notch hole, the receptacle tab, the enclosure tab, and the cover tab.

[0004] In one embodiment a universal receptacle faceplate assembly kit is described. The universal receptacle faceplate assembly kit includes a
20 faceplate. The faceplate includes a substantially planar plate base configured to mount on a wiring enclosure and at least one opening in the plate base. The at least one opening is configured receive a receptacle of a first receptacle type or a second receptacle type. The faceplate also includes a faceplate notch in a front surface of the plate base configured to receive a
25 receptacle tab disposed on receptacles of the first receptacle type or the second receptacle type.

[0005] The universal receptacle faceplate assembly kit also includes a set of covers. A cover includes a cover tab. The cover is configured to surround a receptacle of a selected receptacle type. The universal receptacle faceplate
30 assembly kit further includes a fastener configured to couple the faceplate, a

receptacle, and the cover by passing through the faceplate notch, the receptacle tab, and the cover tab.

BRIEF DESCRIPTION OF THE DRAWINGS

5 **[0006]** The accompanying drawings, which are incorporated in and constitute a part of the specification, illustrate various systems, methods, and other embodiments of the disclosure. It will be appreciated that the illustrated element boundaries (e.g., boxes, groups of boxes, or other shapes) in the figures represent one embodiment of the boundaries. One of ordinary skill in
10 the art will appreciate that in some embodiments one element may be designed as multiple elements or that multiple elements may be designed as one element. In some embodiments, an element shown as an internal component of another element may be implemented as an external component and vice versa. Furthermore, elements may not be drawn to
15 scale.

[0007] Figure 1A is a schematic illustration of a marina power pedestal that includes one embodiment of a universal receptacle faceplate assembly.

[0008] Figure 1B is a schematic illustration of a marina power pedestal that includes one embodiment of a universal receptacle faceplate assembly.

20 **[0009]** Figure 2 is a schematic illustration of an embodiment of a universal receptacle faceplate assembly.

[0010] Figure 3 is an exploded view of one embodiment of a universal receptacle faceplate assembly.

25 **[0011]** Figure 4A is a perspective view of one embodiment of a faceplate cover.

[0012] Figure 4B is a front view of one embodiment of a faceplate cover.

[0013] Figure 4C is a cross section view of one embodiment of a faceplate cover.

[0014] Figure 5A is a perspective view of one embodiment of a faceplate cover.

[0015] Figure 5B is a front view of one embodiment of a faceplate cover.

5 [0016] Figure 5C is a cross section view of one embodiment of a faceplate cover.

[0017] Figure 6A is a perspective view of one embodiment of a faceplate cover.

[0018] Figure 6B is a front view of one embodiment of a faceplate cover.

10 [0019] Figure 6C is a cross section view of one embodiment of a faceplate cover.

[0020] Figure 7A is a perspective view of one embodiment of a faceplate cover.

[0021] Figure 7B is a front view of one embodiment of a faceplate cover.

15 [0022] Figure 7C is a cross section view of one embodiment of a faceplate cover.

DETAILED DESCRIPTION

[0023] The universal receptacle faceplate assembly described herein allows receptacles of different configurations to be installed on the same faceplate. This simplifies the assembly of the power pedestal and makes changing the amperage of the power pedestal less difficult. Accordingly, the receptacles can be changed to accommodate changing power needs. The universal receptacle faceplate assembly is configured to fit receptacles of various sizes and shapes. The universal receptacle faceplate assembly is designed to be used in a marine context, such as in a power pedestal. However, the universal faceplate assembly may be used in a multitude of environments (e.g., home and building, recreational vehicle park, and so on).

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[0024] The universal receptacle faceplate assembly described herein includes an enclosure configured to house at least one receptacle and its associated wiring. The enclosure is fitted with a faceplate that is removable. The faceplate has openings sized to hold receptacles of several configurations (e.g., 20A, 30A, 50A). Accordingly, even if the receptacles are changed the faceplate does not have to be changed. A cover corresponding to the opening of the faceplate is affixed around the receptacle to protect the installed receptacle configuration. The enclosure, faceplate, receptacles, and cover are assembled using a series of tabs, notches, and holes designed to fit together.

[0025] Figure 1A illustrates an embodiment of a power pedestal 10 that includes one embodiment of a universal receptacle faceplate assembly 25 shown with an optional access door. The power pedestal 10 has multiple ports that yield access to utilities such as power, cable, phone, internet, water, and sewage. For example, the valves 22 provide fresh water. In addition to access to fresh water, the power pedestal 10 provides access to media. Access unit 23 may provide access to a circuit breaker, cable jacks, phone jacks, and/or internet jacks. Hubs 24 are used to pump out the sewage from a head or the accumulated liquid in a bilge.

[0026] As will be described in more detail below, one or more power receptacles are housed in the universal receptacle faceplate assembly 25. The power receptacles provide access to electrical infrastructure. The receptacles housed in the universal receptacle faceplate assembly 25 can be changed to accommodate varying amperage needs. The power pedestal 10 also has a pedestal cover 30 with light lenses 32. The light lenses 32 let light escape from the interior of the power pedestal 10 to light the area.

[0027] Figure 1B illustrates an embodiment of a power pedestal 10 that includes similar features as the power pedestal 10 of Figure 1A. In one embodiment of a universal receptacle faceplate assembly 25 shown with an optional cover. For protection from environmental contaminants (e.g.,

particulates, precipitates, insects), the universal receptacle faceplate assembly 25 may be aligned at an acute angle with the ground.

[0028] Figure 2 shows a universal receptacle faceplate assembly 25. The universal receptacle faceplate assembly 25 is assembled to an enclosure 130.

5 The enclosure 130 is configured to be installed in the power pedestal and will house wiring that provides electricity to receptacles in the enclosure. The enclosure 130 includes a faceplate 135. The enclosure 130 encloses a first power receptacle 150 and a second power receptacle 155. The first power receptacle 150 is covered by a first cover 140. The second power receptacle
10 155 is covered by a second cover 145. The first cover 140 and the second cover 145 are configured differently to accommodate the different shapes of the first power receptacle 150 and the second power receptacle 155.

[0029] Figure 3 shows an exploded view of one embodiment of a universal receptacle faceplate assembly 25. The components of the universal
15 receptacle faceplate assembly 25 include the enclosure 130, the faceplate 135, the first receptacle 150, the first cover 140, the second receptacle 155, and the second cover 145. The enclosure 130 houses the receptacles 150, 155 and their associated wiring. The faceplate 135 is mounted in the interior portion 131 of the enclosure 130. The faceplate 135 is mounted to a set of
20 enclosure tabs 132, 133, 134, 136, 137, 138 in the interior portion 131 of the enclosure 130. The set of enclosure tabs have corresponding holes that align with holes on the faceplate 135. For example, the enclosure tab 132 has an enclosure hole 239d. The enclosure hole 239d is aligned with a faceplate hole 239c in the faceplate 135 such that a fastener (e.g., rod, screw, nail, bolt)
25 can be used to attach the faceplate 135 to the enclosure 130 by passing through both the faceplate hole 239c and the enclosure hole 239d in the enclosure tab 132.

[0030] Four points of contact between the enclosure 130 and the faceplate 135 are shown by virtue of the faceplate notches and corresponding
30 enclosure tabs and enclosure holes. Additionally, two points of contact between the enclosure 130 and the faceplate 135 are made by virtue of

enclosure tabs 134 and 138. Faceplate hole 232a in the faceplate 135 corresponds to enclosure hole 232b in enclosure tab 138. Faceplate hole 234a in the faceplate 135 corresponds to enclosure hole 234b in enclosure tab 134.

5 **[0031]** More or fewer contact points could be used to attach the faceplate 135 to the enclosure 130. The set of tabs may be machined or molded as a part of the enclosure 130 or affixed to the interior portion 131 of the enclosure 130 with a fastening agent (e.g., adhesive, glue, clamps, latches). The placement of the tabs in the interior portion 131 of the enclosure may be
10 based on the design of the enclosure 130, the faceplate 135, or any combination of parts of the universal receptacle faceplate assembly 25. Should the position of the tabs be changed, the position of the holes in the corresponding parts of the universal receptacle faceplate assembly 25 can be changed such that the holes of the various parts maintain alignment.

15 **[0032]** The faceplate 135 is configured to be fit with receptacles. Accordingly, the openings 235, 237 in the faceplate are shaped to accommodate either a first receptacle 150 or a second receptacle 155. The openings 235, 237 are sized to accommodate receptacles of all types (e.g., 20A, 30A, 50A) so that the same faceplate may be used regardless of the
20 types of receptacles that are installed in the enclosure 130. The same tab and corresponding holes system described above is used to attach the first receptacle 150 and the second receptacle 155 to the faceplate 135. Specifically, the faceplate is configured with a set of notches 236a, 236b, 238a, 238b. The notches 236a, 236b in the faceplate 135 correspond to a set
25 of tabs 157, 158, respectively, affixed to the first receptacle 150. The notches 238a, 238b in the faceplate 135 correspond to a set of tabs 159, 160, respectively, affixed to the second receptacle 155.

[0033] The first receptacle 150 is configured with a receptacle tab 157. The receptacle tab 157 corresponds to the faceplate notch 236a in the
30 faceplate 135. The receptacle tab 157 is configured to nest within the faceplate notch 236a such that the tab 157 is flush with the faceplate 135

when the tab 157 is seated in the faceplate notch 236a. The receptacle tab 157 has a receptacle hole 259b. The receptacle hole 259b corresponds to the faceplate hole 259c and the enclosure hole 259d. Thus, the first receptacle 150 can be affixed to the faceplate 135 and the enclosure 130 using one fastener. The first receptacle 150 is also configured with a receptacle tab 158 corresponding to a faceplate notch 236b. The receptacle tab 158 has a receptacle hole 239b that is aligned with the faceplate hole 239c in the faceplate notch 236b and the enclosure hole 239d in the enclosure tab 132.

10 **[0034]** The second receptacle 155 is configured with a receptacle tab 159. The receptacle tab 159 corresponds to a faceplate notch 238a. The receptacle tab 159 is configured to nest within the faceplate notch 238a. The receptacle tab 159 has a receptacle hole 261b. The receptacle hole 261b corresponds to the faceplate hole 261c and the enclosure hole 261d. The second receptacle 155, the faceplate 135, and the enclosure 130 can be assembled by passing a fastener through the corresponding receptacle hole 261b, the faceplate hole 261c, and the enclosure hole 261d. The second receptacle 155 is also configured with a receptacle tab 160 corresponding to a faceplate notch 238b. The receptacle tab 160 has a receptacle hole 241b that corresponds to the faceplate hole 241c in the faceplate notch 238b and the enclosure hole 241d in the enclosure tab 132.

25 **[0035]** Four contact points are illustrated between the first receptacle 150, the second receptacle 155, and the faceplate 135. However, more or fewer contact points could be used to attach the first receptacle 150 and the second receptacle 155 to the faceplate 135. The set of tabs on the receptacles 150 and 155 may be formed as a part of receptacles 150 and 155 or affixed after manufacture with a fastening agent (e.g., adhesive, glue, clamps, latches).

30 **[0036]** The first receptacle 150 is a 50A receptacle and the second receptacle 155 is a 30A receptacle. The universal receptacle faceplate assembly 25 is capable of accommodating receptacles of different amperages. The first receptacle 150 and the second receptacle 155 are

shaped differently and have different sizes. Accordingly, the tabs on the receptacles 150 and 155 may be adapted so that they properly mate with the faceplate notches.

[0037] A cover is chosen to fit the receptacle that the cover surrounds.

5 The first cover 140 is specifically configured to closely surround 30 amp receptacle 150. The second cover 145 is specifically configured to closely surround a 20 amp receptacle 155. The covers 140 and 145 are attached using the same tab and hole system that the receptacles 150 and 155, the faceplate 135, and the enclosure 130 use. For example, the first cover 140 is
10 configured to fit over the first receptacle 150. The first cover 140 has a first cover tab 271. The first cover tab 271 corresponds to the receptacle tab 157. The first cover tab 271 has a cover hole 259a that corresponds to the receptacle hole 259b, the faceplate hole 259c, and the enclosure hole 259d. Thus, the first cover 140, the first receptacle 150, the faceplate 135, and the
15 enclosure 130 can be attached by passing a fastener through the corresponding holes 259a, 259b, 259c, and 259d.

[0038] The first cover 140 is configured with a second cover tab 272 having a cover hole 239a. The second cover tab 272 corresponds to the receptacle tab 153 having the receptacle hole 239b. Therefore, the first cover
20 140, the first receptacle 150, the faceplate 135, and the enclosure 130 can be attached by passing a fastener through the corresponding holes 239a, 239b, 239c, and 239d. While two contact points are shown between the cover 140 and the receptacle 150, more or fewer may be used.

[0039] The second cover 145 is configured to fit over the second
25 receptacle 155. The second cover 145 has a first cover tab 273. The first cover tab 273 corresponds to the receptacle tab 159. The first cover tab 273 of the second cover 145 has a cover hole 261a that corresponds to the receptacle hole 261b, the faceplate hole 261c, and the enclosure hole 261d. Thus, the second cover 145, the second receptacle 155, the faceplate 135,
30 and the enclosure 130 can be attached by passing a fastener through the corresponding holes 261a, 261b, 261c, and 261d.

[0040] The second cover 145 also has a second cover tab 274. The second cover tab 274 has a cover hole 241a corresponding to the receptacle hole 241b of the second receptacle 155, the faceplate hole 241c, and the enclosure hole 241d. A fastener attaches the second cover 145 to the second
5 receptacle 155, the faceplate 135, and the enclosure 130 by passing through the corresponding holes 241a, 241b, 241c, and 241d. As can be seen in Figure 3, the faceplate 135 can fit receptacle/covers of various amperages in either opening 235, 237. For example, the first receptacle 150 and the first cover 140 could be installed in the opening 235 and the second receptacle
10 155 and the second cover 145 could be installed in the opening 237.

[0041] Figure 4A is a rear perspective view of one embodiment of the first cover 140. The first cover 140 has an opening 141 to allow a 50A receptacle, such as receptacle 150 (not shown) to pass through the first cover 140. The size and shape of the opening 141 are determined by the size and shape of
15 the 50A receptacle. The first cover 140 has flanges 440 and 445. The flanges 440 and 445 do not extend around the area of the first cover 140 where the cover tabs 271, 272 because the cover tabs 271, 272 are configured to be seated into tabs of a receptacle, such as tabs 157, 158 (not shown).

[0042] With reference to figure 4B, the first cover tab 271 is configured with the cover hole 259a and the second cover tab 272 is configured with the cover hole 239a. Figure 4C is a cross section view of the first cover 140.
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[0043] Figure 5A is a rear perspective view of one embodiment of the second cover 145. The second cover 145 has an opening 147 to allow a 30A receptacle, such as receptacle 155 (not shown) to pass through the second
25 cover 145. The size and shape of the opening 147 are determined by the size and shape of the 30A receptacle. The second cover 145 has flanges 540 and 545. The flanges 540 and 545 do not extend around the area of the second cover 145 where the cover tabs 273, 274 because the cover tabs 273, 274
30 are configured to be seated into tabs of a receptacle, such as tabs 159, 160 (not shown).

[0044] With reference to figure 5B, the first cover tab 273 is configured with the cover hole 261a and the second cover tab 274 is configured with the cover hole 241a. Figure 5C is a cross section view of the second cover 145.

[0045] Figure 6A is a front perspective view of one embodiment of a cover 180. The cover 180 has an opening 185 to allow a rectangular receptacle (not shown) to pass through the cover 180. The size and shape of the opening 185 are determined by the size and shape of the receptacle. The cover 180 has a first cover tab 181 and a second cover tab 182. The first cover tab 181 is configured with a first cover hole 183. The second cover tab 182 is configured with a second cover hole 184. The cover holes 183, 184 correspond to holes on the receptacle. In this manner the cover 180 can be affixed to the receptacle.

[0046] With reference to figure 6B, the first cover tab 181 is configured with the cover hole 183 and the second cover tab 182 is configured with the cover hole 184. Figure 6C is a cross section view of the cover 180.

[0047] Figure 7A is a front perspective view of one embodiment of a cover 190. The cover 190 does not have an opening. Cover 190 protects the wiring in a power pedestal when a receptacle is not installed. The cover 190 has a first cover tab 191 and a second cover tab 192. The first cover tab 191 is configured with a first cover hole 193. The second cover tab 192 is configured with a second cover hole 194. The cover holes 193, 194 correspond to holes on the faceplate (not shown). In this manner the cover 190 can be affixed to the faceplate.

[0048] With reference to figure 7B, the first cover tab 191 is configured with the cover hole 193 and the second cover tab 192 is configured with the cover hole 194. Figure 7C is a cross section view of the cover 190.

[0049] While for purposes of simplicity of explanation, the illustrated methodologies in the figures are shown and described as a series of blocks, it is to be appreciated that the methodologies are not limited by the order of the blocks, as some blocks can occur in different orders and/or concurrently with

other blocks from that shown and described. Moreover, less than all the illustrated blocks may be used to implement an example methodology. Blocks may be combined or separated into multiple components. Furthermore, additional and/or alternative methodologies can employ
5 additional blocks that are not illustrated.

[0050] References to “one embodiment”, “an embodiment”, “one example”, “an example”, and so on, indicate that the embodiment(s) or example(s) so described may include a particular feature, structure, characteristic, property, element, or limitation, but that not every embodiment or example necessarily
10 includes that particular feature, structure, characteristic, property, element or limitation. Furthermore, repeated use of the phrase “in one embodiment” does not necessarily refer to the same embodiment, though it may.

[0051] While example systems, methods, and so on have been illustrated by describing examples, and while the examples have been described in
15 considerable detail, it is not the intention of the applicants to restrict or in any way limit the scope of the appended claims to such detail. It is, of course, not possible to describe every conceivable combination of components or methodologies for purposes of describing the systems, methods, and so on described herein. Therefore, the disclosure is not limited to the specific
20 details, the representative apparatus, and illustrative examples shown and described. Thus, this application is intended to embrace alterations, modifications, and variations that fall within the scope of the appended claims.

[0052] To the extent that the term “includes” or “including” is employed in the detailed description or the claims, it is intended to be inclusive in a manner
25 similar to the term “comprising” as that term is interpreted when employed as a transitional word in a claim.

[0053] To the extent that the term “or” is used in the detailed description or claims (e.g., A or B) it is intended to mean “A or B or both”. When the applicants intend to indicate “only A or B but not both” then the phrase “only A
30 or B but not both” will be used. Thus, use of the term “or” herein is the

inclusive, and not the exclusive use. See, Bryan A. Garner, *A Dictionary of Modern Legal Usage* 624 (2d. Ed. 1995).

[0054] To the extent that the phrase “one or more of, A, B, and C” is used herein, (e.g., a data store configured to store one or more of, A, B, and C) it is intended to convey the set of possibilities A, B, C, AB, AC, BC, and/or ABC (e.g., the data store may store only A, only B, only C, A&B, A&C, B&C, and/or A&B&C). It is not intended to require one of A, one of B, and one of C. When the applicants intend to indicate “at least one of A, at least one of B, and at least one of C”, then the phrasing “at least one of A, at least one of B, and at least one of C” will be used.

Claims

What is claimed is:

1. A faceplate (135), comprising:

a substantially planar plate base configured to mount on a wiring enclosure (130);

at least one opening (235,237) in the plate base configured receive a receptacle (150,155), where the at least one opening is configured to receive receptacles of a first receptacle type (150) or a second receptacle type (155); and

a faceplate notch (236a,236b,238a,238b) in a front surface of the plate base configured to receive a receptacle tab (157,158,159,160) disposed on receptacles of the first receptacle type or the second receptacle type, where the receptacle tab is configured to allow a fastener to pass through the faceplate notch and the receptacle tab to attach the receptacle to the faceplate.

2. The faceplate (135) of claim 1, further comprising:

a cover (140,145) configured to surround a receptacle of a selected receptacle type.

3. The faceplate (135) of claim 2, where the cover includes a cover tab (271,273) configured to allow the fastener to pass through the faceplate notch, the receptacle tab, and the cover tab to attach the receptacle and the cover to the faceplate.

4. The faceplate (135) of claim 1, where the faceplate notch is depressed into the front surface of the faceplate, and where the receptacle tab is

configured to be flush with the front surface of the faceplate when the receptacle tab is seated in the faceplate notch.

5. The faceplate (135) of claim 1, where the first receptacle type is one of a 20 amperage, 30 amperage, or a 50 amperage, and where the second receptacle type is one of a 20 amperage, 30 amperage, or a 50 amperage.

6. The faceplate (135) of claim 1, further comprising:

a first faceplate notch (236a);

a first receptacle (150) of a first receptacle type having a first receptacle tab (157) installed in the first faceplate notch;

a first cover (140) with a first cover tab (271), where the first cover tab is installed in the first faceplate notch; and

a first fastener configured to pass through the first faceplate notch, the first receptacle tab, and the first cover tab to attach the first receptacle and the first cover to the faceplate.

7. The faceplate (135) of claim 6, further comprising:

a second faceplate notch (238a);

a second receptacle (155) of a second receptacle type having a second receptacle tab (159) installed in the second faceplate notch;

a second cover (145) with a second cover tab (273), where the second cover tab is installed in the second faceplate notch; and

a second fastener configured to pass through the second faceplate notch, the second receptacle tab, and the second cover tab to attach the second receptacle and the second cover to the faceplate.

8. An electrical enclosure assembly (25), comprising:

an enclosure (130) configured to house one or more receptacles (150,155) and associated wiring, said enclosure having an enclosure tab (134,138);

the faceplate (135) of claim 1 further having a faceplate notch hole (239c,259c,241c,261c);

a cover (140,145) having a cover tab (271,273) with a cover hole, where the cover is configured to be seated over the receptacle; and

said fastener being configured to couple the faceplate, the receptacle, the enclosure, and the cover by passing through the faceplate notch hole, the receptacle tab, the enclosure tab, and the cover tab.

9. The electrical enclosure assembly (25) of claim 8, where the faceplate notch is depressed into the faceplate, and where the receptacle tab is configured to be flush with the faceplate when the receptacle tab is seated in the faceplate notch.

10. The electrical enclosure assembly (25) of claim 8, where the cover is configured to fit a specific amperage of receptacle.

11. The electrical enclosure assembly (25) of claim 8, where the enclosure is configured with the enclosure tab (134,138) having an enclosure hole (234b,232b), and where the faceplate notch is configured to align with the enclosure tab.

12. The electrical enclosure assembly (25) of claim 11, where the fastener is configured to couple the faceplate to the enclosure by passing through the faceplate notch hole and the enclosure tab hole.

13. The electrical enclosure assembly (25) of claim 8, where the enclosure tab is machined to the enclosure or affixed to the enclosure with a fastening agent.

14. A universal receptacle faceplate assembly kit, comprising:
the faceplate (135) of claim 1;

a set of covers (140,145), where a cover, of the set covers, includes a cover tab (271,273), and where the cover is configured to surround the receptacle (150,155) of a selected receptacle type; and

said fastener is configured to couple the faceplate, the receptacle, and the cover by passing through the faceplate notch, the receptacle tab, and the cover tab.

15. The universal receptacle faceplate assembly kit of claim 14, where the faceplate is configured with a plurality of openings (235,237) configured receive a plurality of receptacles (150,155).

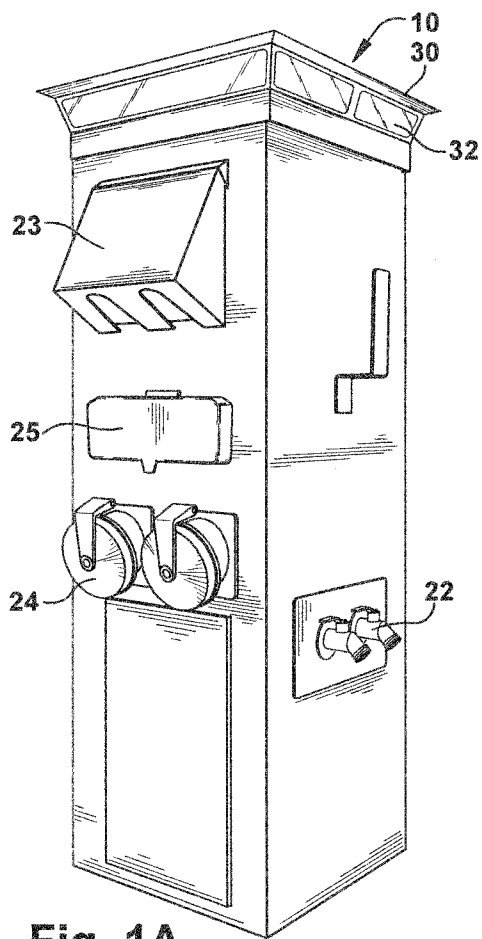


Fig. 1A

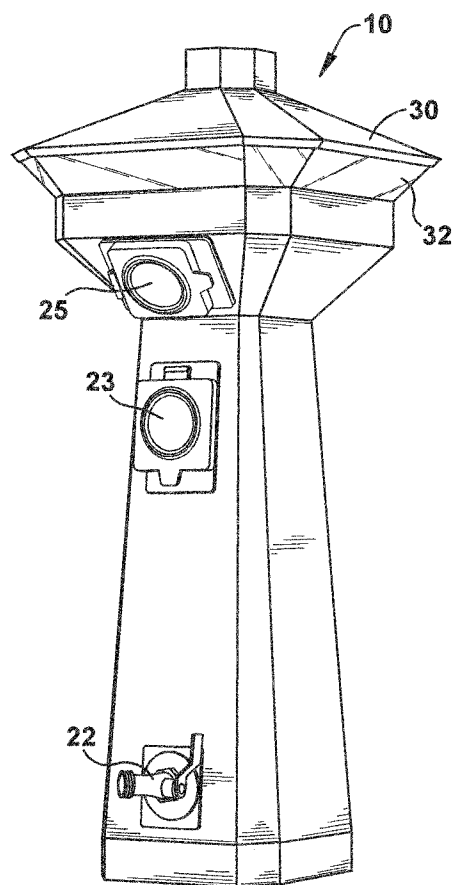
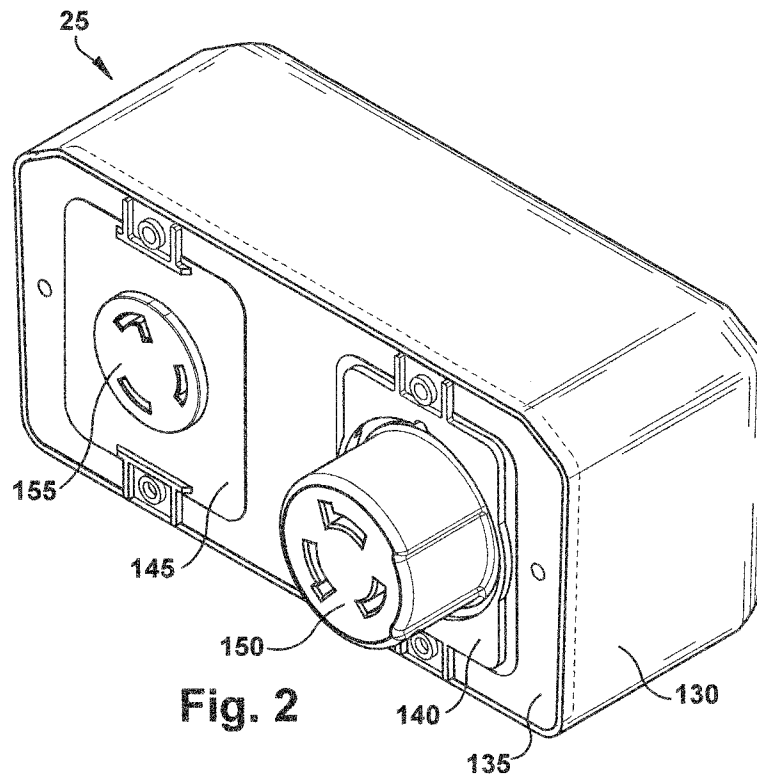


Fig. 1B



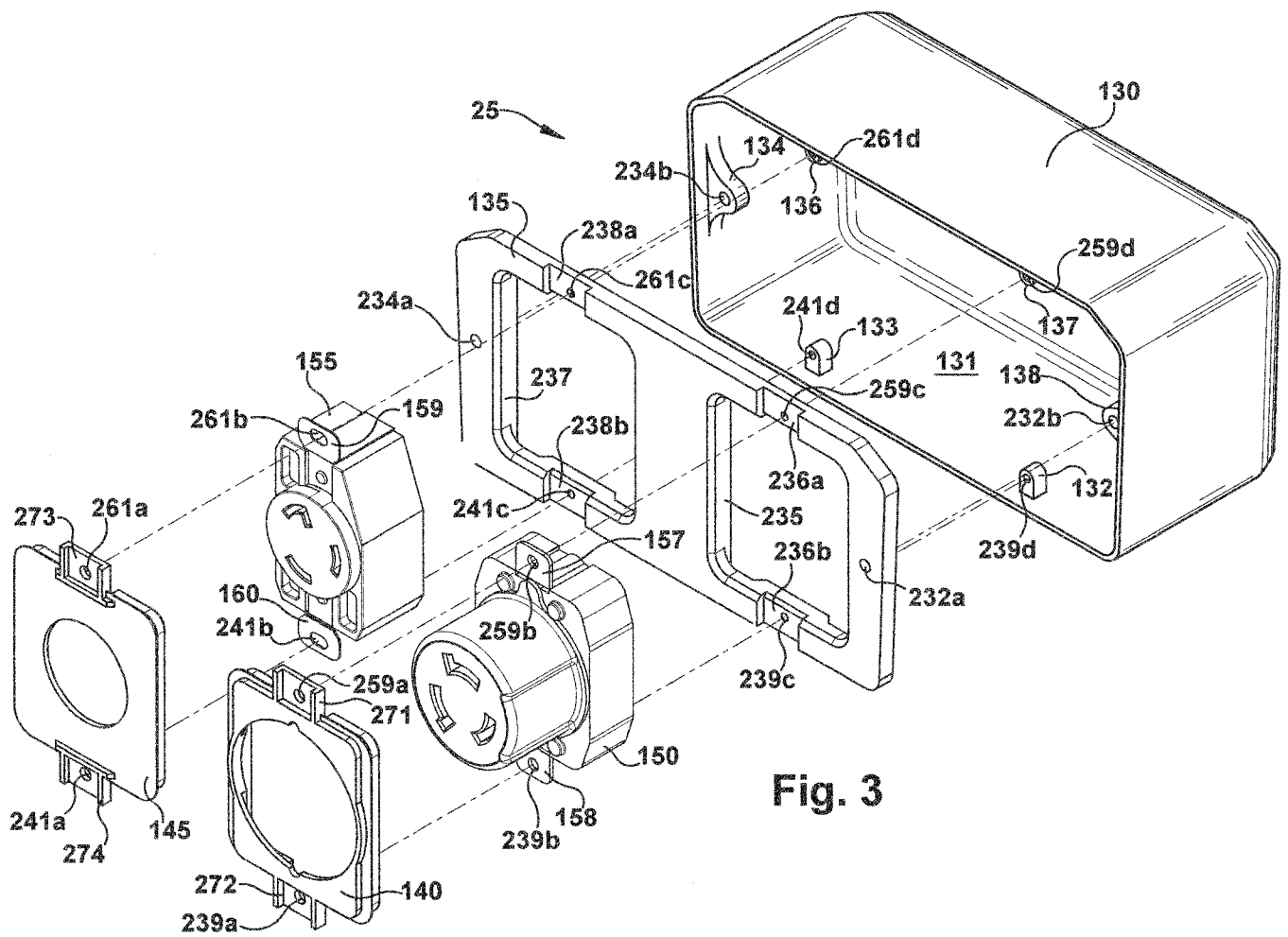


Fig. 3

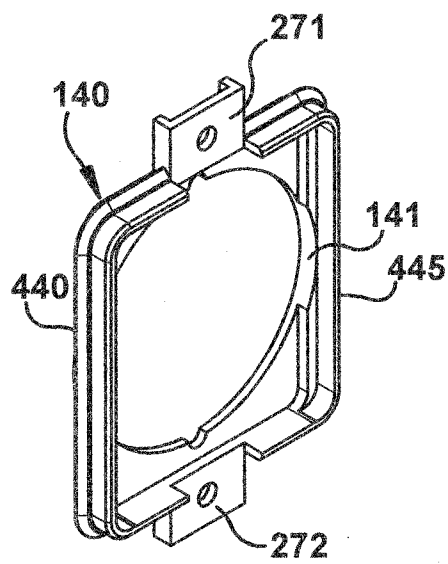


Fig. 4A

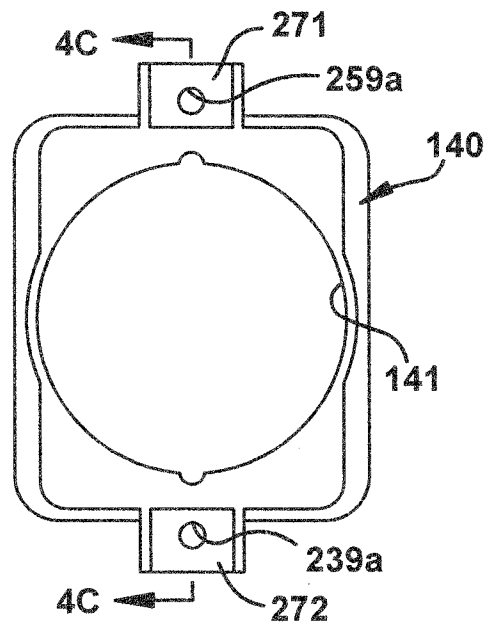


Fig. 4B

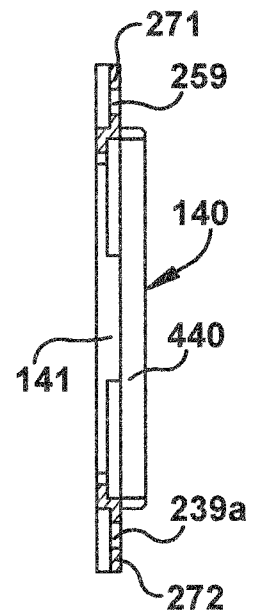


Fig. 4C

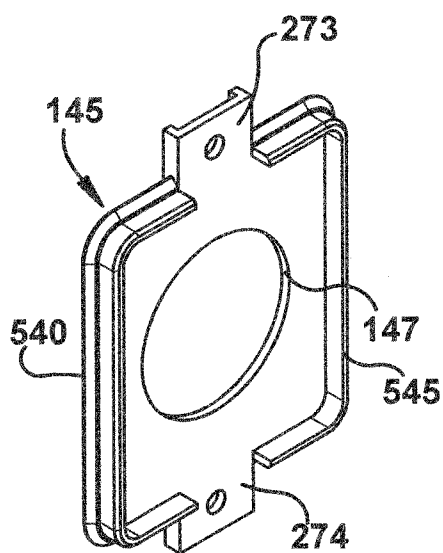


Fig. 5A

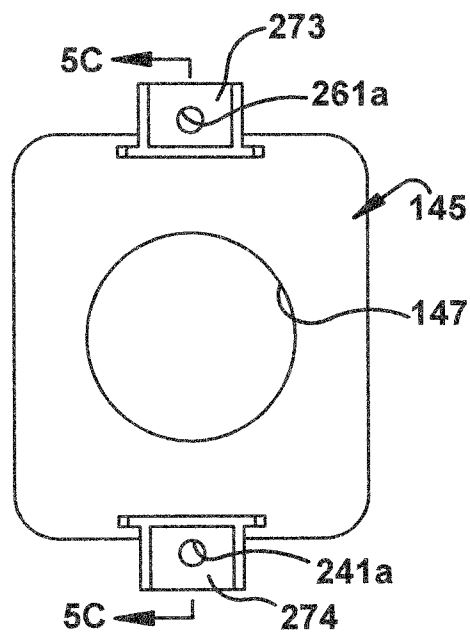


Fig. 5B

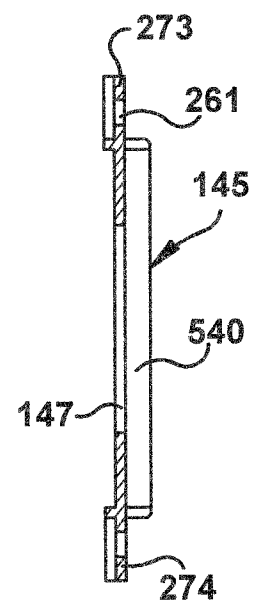


Fig. 5C

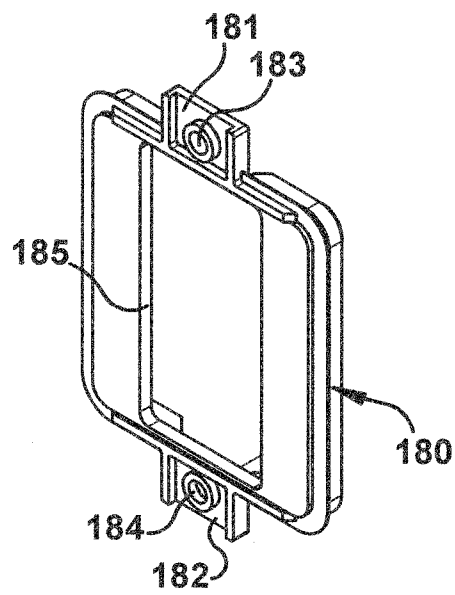


Fig. 6A

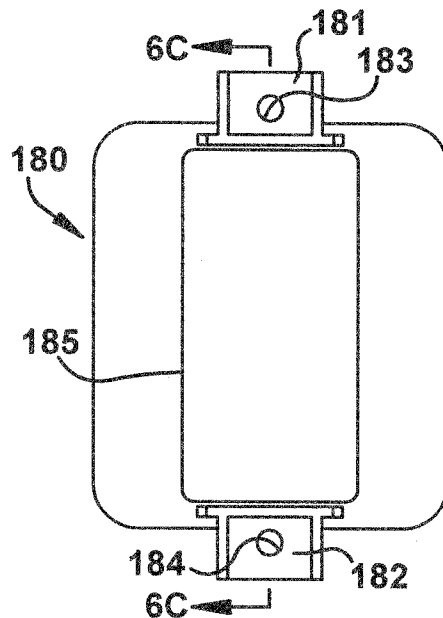


Fig. 6B

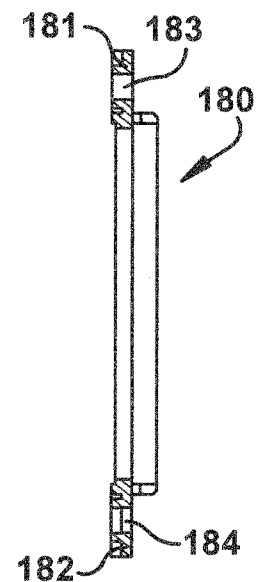


Fig. 6C

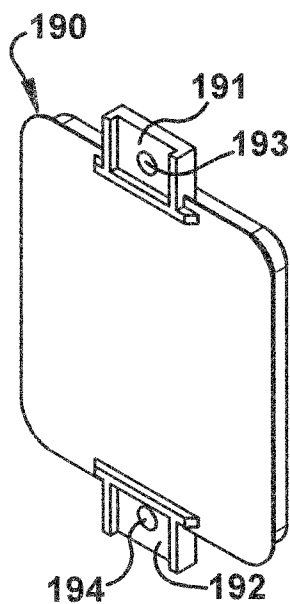


Fig. 7A

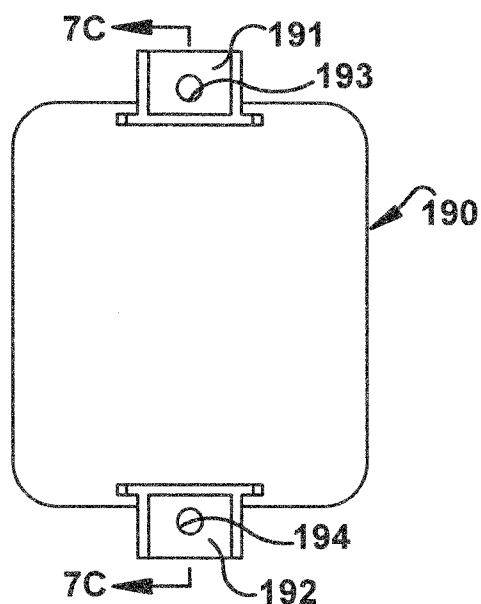


Fig. 7B

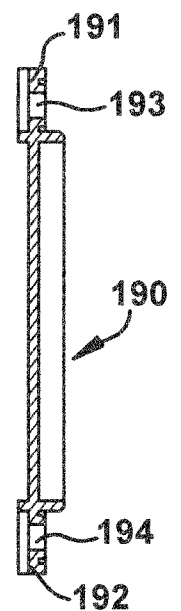


Fig. 7C

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2013/040327

A. CLASSIFICATION OF SUBJECT MATTER
INV. H02G3/14
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H02G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/168237 A1 (WENGROWER CESAR [AR]) 11 September 2003 (2003-09-11)	1,2,4
Y	paragraph [0004] paragraph [0009] paragraph [0037] paragraph [0073] paragraph [0080]	3,5-15
X	WO 2005/115111 A2 (LEVITON MANUFACTURING CO [US]) 8 December 2005 (2005-12-08) page 4, line 2 - page 5, line 24	1-3,5,8, 10-12,14
X	US 6 750 398 B1 (RICHARDSON MICHAEL T [US]) 15 June 2004 (2004-06-15)	1,2,4
Y	column 3, line 59 - column 5, line 12	3,5-15
	----- -/-	



Further documents are listed in the continuation of Box C.



See patent family annex.

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"&" document member of the same patent family

Date of the actual completion of the international search

7 October 2013

Date of mailing of the international search report

18/10/2013

Name and mailing address of the ISA/

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Standring, Michael

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2013/040327

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	US 7 271 338 B1 (ROHMER RICHARD [US]) 18 September 2007 (2007-09-18) figure 2a -----	1-15
A	US 2009/283291 A1 (NI LIDONG [CN]) 19 November 2009 (2009-11-19) paragraph [0024] - paragraph [0030] -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2013/040327

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US 2009283291	A1	19-11-2009	NONE