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Configurable electrical outlet cover enclosure

Abstract

An electrical outlet cover with a lid having an adjustable enclosure. The electrical outlet cover includes a base coupled to an electrical outlet and a hinged lid. The lid includes a frame with a central aperture and a telescoping enclosure with a flange at a front edge of a sleeve, the flange extending outward from the sleeve. The sleeve may include a ledge extending outward from the sleeve adjacent a back edge of the sleeve on at least two sides of the sleeve. The sleeve is slidably coupled within the central aperture and movable between an expanded position and a collapsed position. A front surface of the sleeve enclosure may include a window that extends forward of the sleeve walls and may further bulge forward of the front surface.

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Background/Summary

CROSS REFERENCE TO RELATED APPLICATIONS (1) This application is a continuation of U.S. Utility patent application Ser. No. 17/972,503 entitled “Configurable Electrical Outlet Cover Enclosure” to Jeffrey P. Baldwin et al. that was filed on Oct. 22, 2022, which is a continuation of U.S. Utility patent application Ser. No. 16/990,958 entitled “Configurable Electrical Outlet Cover Enclosure” to Jeffrey P. Baldwin et al. that was filed on Aug. 11, 2020, which is a continuation of U.S. Utility patent application Ser. No. 16/102,676 entitled “Configurable Electrical Outlet Cover Enclosure” to Jeffrey P. Baldwin et al. that was filed on Aug. 13, 2018, which is a continuation-in-part of U.S. Utility patent application Ser. No. 16/028,254 entitled “Configurable Electrical Outlet Cover Enclosure” to Jeffrey P. Baldwin that was filed on Jul. 5, 2018, which is a continuation-in-part of U.S. Utility patent application Ser. No. 15/944,689 entitled “Configurable Electrical Outlet Cover Enclosure” to Jeffrey P. Baldwin that was filed on Apr. 3, 2018, which is a continuation application of U.S. Utility patent application Ser. No. 15/265,837 entitled “Configurable Electrical Outlet Cover Enclosure” to Jeffrey P. Baldwin that was filed on Sep. 14, 2016, which application claims the benefit of the filing date of U.S. Provisional Patent Application 62/218,374 entitled “Configurable Enclosure” to Jeffrey P. Baldwin that was filed on Sep. 14, 2015, the disclosures of each of which are hereby incorporated herein by reference.

BACKGROUND

1. Technical Field

(1) Aspects of this document relate generally to configurable enclosures to cover an electrical outlet.

2. Background Art

(2) Outlet covers are used on exterior electrical outlets to reduce or prevent water, dirt, or other contaminants from entering the electrical outlet. Outlet covers for the exterior of buildings are typically large and boxy because they have sufficient space to allow one or more power plugs to plug into sockets while the outlet cover is closed. Many outlet covers may be attached to electrical outlets that are rarely used. A need exists for outlet covers that can collapse or be configured to take up less space.

SUMMARY

(3) Aspects of this document relate to a cover for an electrical outlet that may comprise a base comprising at least one electrical box mounting screw aperture extending through a portion of the base, and an electrical device aperture extending through the base sized large enough to receive a portion of an electrical device therethrough, a lid frame hingedly coupled to the base along a first side of the lid frame and pivotable between an open position and a closed position, the lid frame comprising a central aperture, and a gasket surrounding the central aperture on a surface of the lid frame, and an enclosure slidably coupled to the lid frame within the central aperture and movable within the lid frame between a collapsed, not-in-use position and an extended, in-use position, the enclosure comprising a continuous enclosure side wall comprising a ledge extending outward from the enclosure side wall adjacent a back edge of the enclosure side wall, the ledge in contact with the lid frame gasket when the enclosure is in its extended, in-use position, and the ledge adjacent the base when in its collapsed, not-in-use position, the enclosure side wall further comprising a leading edge distal to the back edge, and an enclosure front wall coupled to the enclosure side wall, the enclosure front wall comprising a convex front surface.

(4) Particular embodiments may comprise one or more of the following features. An aperture through the enclosure front wall, the aperture comprising a window within the aperture, the window having a rear surface that curves outward in relation to the leading edge of the continuous enclosure side wall and extends forward of the leading edge. A window portion extending forward of the convex front surface of the enclosure wall. A bulge extending outward from the convex front surface of the enclosure wall. A leading surface surrounding the central aperture and a lid frame lip surrounding and extending forward of the leading surface, the second perimeter of the enclosure

front wall being smaller than an inner perimeter of the lid frame lip, at least two tabs extending outward from the enclosure front wall on opposing sides, wherein when the enclosure is in the collapsed, not-in-use position, the enclosure front wall is seated within the lid frame lip surrounding the leading surface, and the convex front surface extends forward of the lid frame lip providing a gap between the at least two tabs and the lid frame lip. A cord port aperture extending through a base side wall, wherein when the enclosure side wall is in the collapsed, not-in-use position, the enclosure side wall blocks access from the cord port aperture to the aperture extending through the base.

(5) According to an aspect of the disclosure, a cover for an electrical outlet may comprise a base comprising at least one electrical box mounting screw aperture extending through a portion of the base, and an electrical device aperture extending through the base sized large enough to receive a portion of an electrical device therethrough, a lid frame hingedly coupled to the base along a first side of the lid and pivotable between an open position and a closed position, the lid frame comprising a central aperture, and an enclosure slidably coupled to the lid frame within the central aperture and movable within the lid frame between a collapsed, not-in-use position and an extended, in-use position, the enclosure comprising a continuous enclosure side wall comprising a ledge extending outward from the enclosure side wall adjacent a back edge of the enclosure side wall, the enclosure side wall further comprising a leading edge distal to the back edge, and an enclosure front wall coupled to the enclosure side wall, the enclosure front wall comprising a front surface, and a window in the enclosure front wall having a rear surface that extends outward in relation to the leading edge of the continuous enclosure side wall and extends forward of the leading edge.

(6) Particular embodiments may comprise one or more of the following features. The front surface of the enclosure front wall may be curved. The front surface of the enclosure front wall may be flat. The front surface of the enclosure may comprise a convex front surface, the lid frame further comprising a leading surface surrounding the central aperture and a lid frame lip surrounding and extending forward of the leading surface, the second perimeter of the enclosure front wall being smaller than an inner perimeter of the lid frame lip, at least two tabs extending outward from the enclosure front wall on opposing sides, wherein when the enclosure is in the collapsed, not-in-use position, the convex front surface extends forward of the lid frame lip providing a gap between the at least two tabs and the lid frame lip. The window curves outward from the front surface in at least two different directions. A window portion extending forward of the front surface of the enclosure wall. A bulge extending outward from the front surface of the enclosure wall.

(7) According to an aspect of the disclosure, a cover for an electrical outlet may comprise a base comprising an electrical device aperture extending through the base sized large enough to receive a portion of an electrical device therethrough, a lid hingedly coupled to the base along a first side of the lid and pivotable between an open position and a closed position, the lid comprising a lid frame with a central aperture, and an enclosure slidably coupled to the lid frame within the central aperture and slidable within the lid frame between a collapsed, not-in-use position and an extended, in-use position, the enclosure comprising a continuous enclosure side wall comprising a ledge extending outward from the enclosure side wall adjacent a back edge of the enclosure side wall, the ledge adjacent the lid frame when the enclosure is in its extended, in-use position, and adjacent the base when the enclosure is in its collapsed, not-in-use position, the enclosure side wall further comprising a perimeter, and an enclosure front wall comprising a front surface and a window in the enclosure front wall, the window having a rear surface that curves outward in relation to the leading edge of the continuous enclosure side wall and extends forward of the leading edge.

(8) Particular embodiments may comprise one or more of the following features. A gasket surrounding the central aperture on a rear surface of the lid frame, the enclosure side wall ledge in contact with the lid frame gasket when the enclosure is in its extended, in-use position. A convex front surface, the lid frame further comprising a leading surface surrounding the central aperture

and a lid frame lip surrounding and extending forward of the leading surface, the second perimeter of the enclosure front wall being smaller than an inner perimeter of the lid frame lip, at least two tabs extending outward from the enclosure front wall on opposing sides, wherein when the enclosure is in the collapsed, not-in-use position, the convex front surface extends forward of the lid frame lip providing a gap between the at least two tabs and the lid frame lip. The front surface of the enclosure front wall is flat. A window portion extending forward of the front surface of the enclosure wall. A bulge extending outward from the front surface of the enclosure wall. The window curves outward in at least two directions.

(9) The foregoing and other aspects, features, applications, and advantages will be apparent to those of ordinary skill in the art from the specification, drawings, and the claims. Unless specifically noted, it is intended that the words and phrases in the specification and the claims be given their plain, ordinary, and accustomed meaning to those of ordinary skill in the applicable arts. The inventors are fully aware that he can be his own lexicographer if desired. The inventors expressly elect, as their own lexicographers, to use only the plain and ordinary meaning of terms in the specification and claims unless they clearly state otherwise and then further, expressly set forth the “special” definition of that term and explain how it differs from the plain and ordinary meaning. Absent such clear statements of intent to apply a “special” definition, it is the inventors' intent and desire that the simple, plain and ordinary meaning to the terms be applied to the interpretation of the specification and claims.

(10) The inventors are also aware of the normal precepts of English grammar. Thus, if a noun, term, or phrase is intended to be further characterized, specified, or narrowed in some way, then such noun, term, or phrase will expressly include additional adjectives, descriptive terms, or other modifiers in accordance with the normal precepts of English grammar. Absent the use of such adjectives, descriptive terms, or modifiers, it is the intent that such nouns, terms, or phrases be given their plain, and ordinary English meaning to those skilled in the applicable arts as set forth above.

(11) The foregoing and other aspects, features, and advantages will be apparent to those of ordinary skill in the art from the specification, drawings, and the claims.

Description

BRIEF DESCRIPTION OF THE DRAWINGS

- (1) Implementations will hereinafter be described in conjunction with the appended drawings, where like designations denote like elements, and:
- (2) FIGS. 1 and 2 are perspective views of an outlet cover assembly in, respectively, closed collapsed and closed extended positions;
- (3) FIG. 3 is a perspective view of the outlet cover of FIG. 1 in an open position with the cover collapsed;
- (4) FIG. 4A is a front view of the outlet cover assembly of FIG. 3;
- (5) FIG. 4B is a break out view of the section 4B on FIG. 4A;
- (6) FIG. 5 is a perspective view of an outlet cover assembly of FIG. 1 in an open position with the cover expanded;
- (7) FIG. 6 is an exploded perspective view of the outlet cover assembly of FIG. 1;
- (8) FIGS. 7 and 8 are side views of the outlet cover assembly of FIG. 1 in, respectively, closed collapsed and closed extended positions;
- (9) FIG. 9 is a front view of an outlet cover assembly of FIG. 1 shown mounted on a wall;
- (10) FIG. 10 is a front view of an outlet cover assembly of FIG. 1, not mounted on a wall;
- (11) FIG. 11 is a sectional view of FIG. 9, with the section taken along section lines 11-11;
- (12) FIG. 12A is a sectional view of FIG. 10, with the section taken along section lines 12-12;

(13) FIGS. 12B and 12C are break out views of, respectively, sections 12B and 12C on FIG. 12A;

(14) FIG. 13 is a rear view of a lid portion of the outlet cover assembly of FIG. 1;

(15) FIG. 14 is a rear perspective view of the lid assembly of FIG. 13;

(16) FIG. 15 is a perspective view of an outlet cover assembly configured according to an embodiment of a second approach in a closed collapsed position;

(17) FIG. 16 is a perspective view of the outlet cover assembly of FIG. 15 with the lid in a closed expanded position;

(18) FIGS. 17 and 18 are perspective views the outlet cover assembly of FIG. 15 with the lid in, respectively, an open collapsed position and an open expanded position;

(19) FIG. 19 is an exploded perspective view of the outlet cover assembly of FIG. 15;

(20) FIGS. 20 and 21 are, respectively, side views of the outlet cover assembly of FIG. 15 in, respectively, the closed collapsed position and the closed expanded position;

(21) FIG. 22 is a front view of the outlet cover assembly of FIG. 15 with the lid in its open collapsed position;

(22) FIG. 23 is a front view of an outlet cover assembly of FIG. 15 shown mounted on a wall;

(23) FIG. 24 is a front view of an outlet cover assembly of FIG. 15, not mounted on a wall;

(24) FIG. 25 is a sectional view of FIG. 23, with the section taken along section lines 25-25;

(25) FIG. 26 is a sectional view of FIG. 24, with the section taken along section lines 26-26;

(26) FIG. 27 is an exploded perspective view of an outlet cover assembly with a frame and a removable bubble that seats on the frame;

(27) FIG. 28 is a perspective view of the outlet cover assembly of FIG. 27 in the closed protruding position;

(28) FIG. 29 is a perspective view of the outlet cover assembly of FIG. 27 in the open protruding position;

(29) FIG. 30 is a perspective view of the outlet cover assembly of FIG. 27 in the closed receding position;

(30) FIG. 31 is a perspective view of the outlet cover assembly of FIG. 27 in the open receding position;

(31) FIG. 32 is an exploded perspective view of an outlet cover assembly with a reversible two-hinged lid mounted in a vertical orientation;

(32) FIG. 33 is a perspective view of the outlet cover assembly of FIG. 32 in the closed protruding position;

(33) FIG. 34 is a perspective view of the outlet cover assembly of FIG. 32 in the open protruding position;

(34) FIG. 35 is a perspective view of the outlet cover assembly of FIG. 32 in the closed receding position;

(35) FIG. 36 is a perspective view of the outlet cover assembly of FIG. 32 in the open receding position;

(36) FIG. 37 is a perspective view of the outlet cover assembly of FIG. 32 but mounted in a horizontal orientation with the lid in the closed protruding position;

(37) FIG. 38 is a perspective view of the outlet cover assembly of FIG. 32 but mounted in a horizontal orientation with the lid in the open protruding position;

(38) FIG. 39 is a perspective view of the outlet cover assembly of FIG. 32 but mounted in a horizontal orientation with the lid in the closed receding position;

(39) FIG. 40 is a perspective view of the outlet cover assembly of FIG. 32 but mounted in a horizontal orientation with the lid in the open receding position;

(40) FIG. 41A is a front view of an outlet cover assembly of FIG. 33;

(41) FIG. 41B is a first side view of FIG. 41A;

(42) FIG. 41C is a second side view of FIG. 41A;

(43) FIG. 41D is a sectional view of FIG. 41A;

- (44) FIG. 41E is a sectional view of FIG. 41A;
- (45) FIG. 42A is a front view of an outlet cover assembly of FIG. 35;
- (46) FIG. 42B is a first side view of FIG. 42A;
- (47) FIG. 42C is a second side view of FIG. 42A;
- (48) FIG. 42D is a third side view of FIG. 42A;
- (49) FIG. 42E is a sectional view of FIG. 42A;
- (50) FIG. 42F is a sectional view of FIG. 42A;
- (51) FIG. 43A is a front view of an outlet cover assembly of FIG. 37;
- (52) FIG. 43B is a first side view of FIG. 43A;
- (53) FIG. 43C is a second side view of FIG. 43A;
- (54) FIG. 43D is a third side view of FIG. 43A;
- (55) FIG. 43E is a sectional view of FIG. 43A;
- (56) FIG. 43F is a sectional view of FIG. 43A;
- (57) FIG. 44A is a front view of an outlet cover assembly of FIG. 39;
- (58) FIG. 44B is a first side view of FIG. 44A;
- (59) FIG. 44C is a second side view of FIG. 44A;
- (60) FIG. 44D is a third side view of FIG. 44A;
- (61) FIG. 44E is a sectional view of FIG. 44A;
- (62) FIG. 44F is a sectional view of FIG. 44A;
- (63) FIG. 45 is an exploded perspective view of an outlet cover assembly with bubble removable from a frame;
- (64) FIG. 46 is a perspective view of the outlet cover assembly of FIG. 45 assembled in a vertical orientation with the bubble and lid in the closed protruding position;
- (65) FIG. 47 is a perspective view of the outlet cover assembly of FIG. 45 in the open protruding position;
- (66) FIG. 48 is a perspective view of the outlet cover assembly of FIG. 45 in the closed receding position;
- (67) FIG. 49 is a perspective view of the outlet cover assembly of FIG. 45 in the open receding position;
- (68) FIG. 50 is a perspective view of the outlet cover assembly of FIG. 45 but mounted in a horizontal orientation with the lid in the closed protruding position;
- (69) FIG. 51 is a perspective view of the outlet cover assembly of FIG. 45 but mounted in a horizontal orientation with the lid in the open protruding position;
- (70) FIG. 52 is a perspective view of the outlet cover assembly of FIG. 45 but mounted in a horizontal orientation with the lid in the closed receding position;
- (71) FIG. 53 is a perspective view of the outlet cover assembly of FIG. 45 but mounted in a horizontal orientation with the lid in the open receding position;
- (72) FIG. 54 is a perspective view of an outlet cover assembly with a curved front surface;
- (73) FIG. 55 is a perspective view of the outlet cover assembly of FIG. 54 in an open position with the enclosure collapsed;
- (74) FIG. 56 is a front view of the outlet cover assembly of FIG. 54 in a closed position with the enclosure collapsed;
- (75) FIG. 57 is a sectional view of the outlet cover assembly of FIG. 56;
- (76) FIG. 58 is a side view of the outlet cover assembly of FIG. 56;
- (77) FIG. 59 is a front view of the outlet cover assembly of FIG. 54 in a closed position with the enclosure extended;
- (78) FIG. 60 is a sectional view of the outlet cover assembly of FIG. 59;
- (79) FIG. 61 is a side view of the outlet cover assembly of FIG. 59;
- (80) FIG. 62 is an exploded view of the outlet cover assembly of FIG. 54 in a closed position;
- (81) FIG. 63 is a rear view of the lid frame of the outlet cover assembly of FIG. 54;

(82) FIG. **64** is a rear view of the enclosure front wall of the outlet cover assembly of FIG. **54**; and
(83) FIG. **65** is a front view of the front wall of the outlet cover of FIG. **59**;
(84) FIG. **66** is a sectional view of a portion of the outlet cover of FIG. **59** taken along section line **66** of FIG. **65**;
(85) FIG. **67** is a close-up view of a portion of FIG. **66** taken along close-up section line **67**;
(86) FIG. **68** is the sectional view of the outlet cover of FIG. **60** with an electrical cord;
(87) FIG. **69A** is a front view of an embodiment of an electrical outlet cover;
(88) FIG. **69B** is a sectional view of the outlet cover of FIG. **69A** taken along section line **69B**;
(89) FIGS. **70A-70C** are, respectively, perspective, left side and top views of a window portion of the outlet cover of FIG. **68**; and
(90) FIGS. **71A-71C** are, respectively, perspective, left side and top views of a window portion of the outlet cover of FIG. **69B**.
(91) Skilled artisans will appreciate that elements in the figures are illustrated for simplicity and clarity and have not necessarily been drawn to scale. For example, the dimensions of some of the elements in the figures may be exaggerated relative to other elements to help to improve understanding of implementations.

DESCRIPTION

(92) This document features a cover for an electrical outlet. There are many features of an outlet cover and method implementations disclosed herein, of which one, a plurality, or all features or steps may be used in any particular implementation.

(93) In the following description, reference is made to the accompanying drawings which form a part hereof, and which show by way of illustration possible implementations. It is to be understood that other implementations may be utilized, and structural, as well as procedural, changes may be made without departing from the scope of this document. As a matter of convenience, various components will be described using exemplary materials, sizes, shapes, dimensions, and the like. However, this document is not limited to the stated examples and other configurations are possible and within the teachings of the present disclosure. As will become apparent, changes may be made in the function and/or arrangement of any of the elements described in the disclosed exemplary implementations without departing from the spirit and scope of this disclosure.

(94) FIGS. **1-6** depict various views of a non-limiting implementation of a cover for an electrical outlet. An example of an electrical outlet cover according to a first approach described herein and generally shown in FIGS. **1-14**. Although the particular material from which this outlet cover **101** is formed is not critical to the outlet cover **101**, and any materials known in the art that electrical outlet covers are formed from will suffice, this particular approach is particularly useful when manufacturing the cover of plastic commonly used for manufacturing electrical outlet covers. A second approach, illustrated in FIGS. **15-26**, is more conducive and useful to manufacturing from metal. Outlet cover **101** includes a base **110** hingedly coupled to a lid **119** (e.g., using hinge assembly **120**). The lid **119** includes at least a frame **130**. Outlet cover **100** may be attached to an electrical outlet by screwing a screw into box mounting screw holes **114** (FIG. **4A**), which attaches outlet cover **101** to an electrical box housing an electrical outlet. A wall plate **190** may be attached to the electrical box or the electrical outlet. The lid **119** may be pivotally lifted from the base **110** to change from a closed position (as in FIGS. **1** and **2**) to an open position (as in FIGS. **3** and **5**). In the closed position, a latch assembly **180** may lock the lid **119** to the base **110**. In the closed position **109**, a locking assembly **170** allows a lock or other locking device to be threaded through the locking assembly **170**. Further description of this locking assembly **170** is provided below.

(95) The base **110** of outlet cover **100** may include one or more cord ports **116**. A cord port door **117** is removably coupled to each cord port **116**. The cord port **116** operates to allow a power cord **119** to enter the outlet cover **100** and couple to the electrical outlet. The base **110** includes an outlet aperture **115** to allow the electrical outlet to be accessible through the outlet cover **100**. The base **110** may include an insert **113** (FIG. **4A**) that allows a variety of different types of electrical outlets

to mate with a single type of outlet cover **100**. A seal **192** (e.g., a foam seal as in FIG. **11**) may protect the base from water and weather by being sandwiched between the back of the base **110** and the adjacent wall or wall plate **190**.

(96) A hinge assembly **120** of outlet cover **100** hingedly couples the base **110** to the lid **119**. The hinge assembly **120** includes a first hinge member **121** and a second hinge member **122**. The hinge assembly **120** may be held together by threading a pin **124** into pin aperture **123** and threading the pin **124** through both the first hinge member **121** and the second hinge member **122**. The base may include a trough **118** or similar structure to mate with the lid **119** in a tortuous path that resists the passage of water and dirt when in the closed position.

(97) A locking assembly **170** of outlet cover **100** allows a user to lock or tie off at least two of: the base **110**, the frame **130**, and a telescoping enclosure **140**. An enclosure locking aperture **171** is aligned with both a frame locking aperture **172** and a base locking aperture **173**. At least two of apertures **171**, **172**, and **173** may be positioned in proximity to each other and a locking device may be threaded through the apertures to lock the elements together.

(98) A latch assembly **180** of outlet cover **100** allows the lid **119** to releasably lock to the base **110**. The latch assembly **180** may automatically lock when lid **119** is in a closed position **109**. The latch assembly **180** may include a lid latch member **181** and a base latch member **182**. The latch assembly **180** may be a variety of fasteners, couplers, latches, or the like (e.g., a cantilevered snap-fit latch).

(99) Referring specifically to FIGS. **4-14**, outlet cover **101** includes a telescoping enclosure **140** housed within a central aperture **131** of the frame **130**. The telescoping enclosure **140** includes a sleeve **145** that slides within the central aperture **131** between an expanded position (as in FIGS. **5**, **8**, **11** and **14**) and a collapsed position (as in FIGS. **4**, **7** and **12A**). In the expanded position, the telescoping enclosure **140** may be held in place in the expanded position by way of couplings, fasteners, and/or friction between the sleeve **145** and the central aperture **131**. Various fasteners can hold the telescoping enclosure **140** in the expanded position, such as: snap-fit fasteners, latches, couplers, magnets, or the like. In some embodiments, the frame **130** has a flexible ring **133** with a ridge **132** that mates with a plurality of protrusions **147** on the sleeve **145** so that the protrusions **147** and ridge **132** operate together as an annular snap-fit fastener to hold the telescoping enclosure **140** in the expanded position **148**. Thus, sliding sleeve **145** from the collapsed position into the expanded position causes the protrusions **147** to traverse the ridge **132**, thereby snap-fitting the telescoping enclosure **140** in the expanded position.

(100) The telescoping enclosure **140** slides between the collapsed position and the expanded position without falling out of the frame **130**. The sleeve **145** may include a plurality of ledges **146** near a back portion of the sleeve **145**. The ledges **146** increase the diameter of the sleeve **145** to be larger than the central aperture **131**, which causes the ledges **146** to catch on the frame **130** and stop outward sliding movement. Thus, one or more ledges **146** may be abutting the frame **130** in the expanded position. In addition, protrusions **147** may be snap-fit with ridge **132** in the expanded position. The flexible ring **133** may have sufficient friction against the sleeve **145** to restrict water from entering the outlet cover **101** when in the expanded position.

(101) Sometimes a user may lose or discard the cord port door **117**, which may allow water or dirt to enter the outlet cover **101** unless another element blocks the water and dirt from entering. The telescoping enclosure **140** positioned in the collapsed position (see FIG. **12A**) helps restrict water and dirt from entering the outlet cover **101**. In some embodiments, telescoping enclosure **140** may include a flange **141** (or another protrusion or lip) that abuts the frame **130** when in the collapsed position **149**. The shape of the frame **130** and the flange **141** create a significant obstruction to water and dirt. In certain embodiments, the telescoping enclosure **140** may seat into the base **110** when in the collapsed position. A back edge **151** (FIG. **4A**) of the sleeve **145** seats against or abuts the base when in the collapsed position. The back edge **151** may seat in a valley **91** near at least one ridge (e.g., next to ridge **90**, between ridge **90** and outer ridge **92**, or the like). Back edge **151** seated

proximate ridge **90** of the base **110** helps restrict water and dirt from entering and contacting the electrical outlet, and may form a tortuous path for any water or dirt attempting to enter. This beneficial barrier to contaminants entering the enclosure even when the cord ports are open is particularly advantageous. One significant benefit of having the back edge **151** abutting the base **110** is that it doesn't matter if a cord port door **117** is missing because positioning the telescoping enclosure **140** in the collapsed position forms an inner barrier against water and dirt. Thus, water can enter an open cord port **116** and be substantially or entirely blocked from reaching the electrical outlet **115** by a telescoping enclosure **140** in the collapsed position.

(102) FIGS. **15-26** depict various views of a non-limiting implementation of a cover for an electrical outlet. An electrical outlet cover **101** may be formed according to the second approach described herein and generally shown in FIGS. **15-26**. Although the particular materials with which this second approach is manufactured is not critical to the operation of the cover and may be formed of plastic or metal or any other materials known in the formation of electrical outlet covers, this approach is particularly advantageous for electrical outlet covers manufactured of metal. Outlet cover **102** is similarly structured to outlet cover **101** in the previous approach, with differences discussed below.

(103) Outlet cover **102** may include a latch assembly **160** that includes a hitch seat **161** (FIG. **17**) that mates with the frame **130**, for example mating with frame **130** at cutout **162** (FIG. **22**). Latch assembly **160** operates by employing a hinge assembly **120** with a pin **124** where there is sufficient vertical movement or “play” for the lid hinge so that when vertically moving the lid **119** in its closed position (FIG. **15** or **16**) against the base **110**, the cutout **162** unseats from the hitch seat **161** so that the lid **119** can then be pivoted forward to pass over the latch assembly **160** to allow the lid **119** to continue to be lifted into the open position (FIG. **17** or **18**).

(104) Flange **141** of the telescoping enclosure **140** may have a variety of shapes and sizes. For example, the flange **141** depicted in FIGS. **15-26** has a different shape than the flange **141** depicted in FIGS. **1-14**, but both flanges **141** may serve the same purpose and function. It follows that flange **141** of outlet cover **102** also abuts the frame **130** in the collapsed position (FIGS. **17** and **20**).

(105) Sleeve **145** may also include a foot assembly **153** (FIG. **17**) attached to a back portion of the sleeve. The base of the foot assembly **153** thus becomes the back edge **151** of the sleeve **145**. That is, when the sleeve **145** seats down into the base **110** in the collapsed position (see FIG. **26**), the back edge **151** of the sleeve **145** is the underside of the foot assembly **153**. In addition, the top surface of the foot assembly **153** is labeled as ledge **146** because this top surface of the foot assembly **153** now operates as ledge **146** in outlet cover **102**. Thus, foot assembly **153** abuts the frame **130** when the ledge **146** abuts the frame **130** to stop the telescoping enclosure **140** from entirely sliding out of the central aperture **131** in the extended position **148**. The ledge **146** may also help form a tortuous path with the frame **130** to restrict entry of water or dirt. The foot assembly **153** may have cavities and a diameter configured to seal or restrict contaminants between the frame **130** and/or the base **110**.

(106) Sleeve **145** may include runners **155** that help support the telescoping enclosure **140** within the frame **130** as the runners **155** (FIGS. **19** and **21**) slide through channels **156** in the frame **130**. The length of the runners **155** may be short enough to allow the telescoping enclosure **140** to slightly fall or slip down when in the extended position **148** (see FIG. **21**). This ability to fall or slip down operates to lock the telescoping enclosure **140** in the extended position because a user would need to lift the telescoping enclosure **140** and re-insert the runners **155** into the channels **156** to slide the telescoping enclosure back to the collapsed position. It also assists in locking the telescoping enclosure **140** in the collapsed position for the same reasons.

(107) Each of the embodiments disclosed in FIGS. **27-53** includes a cover for an electrical outlet that has a base with an opening large enough to receive a portion of an electrical device therein, a lid hingedly coupled to the base on one side that can pivot between an open position and a closed position. For each embodiment, the lid of the assembly includes a frame surrounding a central

aperture **215** in the frame, with a bubble protruding outward from the frame. For the bubble, by nature of either the lid as a whole or the bubble by itself in relation to the frame, being in a first position, the bubble protrudes outward, away from the base to allow space within the cover assembly in the closed position so that a plug can be plugged into an electrical outlet and the cover closed without interference. When the lid as a whole or the bubble itself in relation to the frame results in the bubble being in a second position, by rotating the bubble 180 degrees in at least one direction, the bubble recedes inward toward the base and when the lid is placed in a closed position the bubble extends into the base. By the bubble having both a first position and a second position in which the bubble can attach to the outlet cover assembly and in the first position it allows for use of the assembly as a weatherproof outlet cover and in the second position it is more compact, blocks the outlet receptacle from use and still closes, the outlet cover assembly provides significant advantage over conventional bubble covers.

(108) FIGS. **27-31** depict various views of a non-limiting implementation of a cover **103** for an electrical outlet. This embodiment shares numerous similarities with the previous two embodiments, but the previous two embodiments differ from this embodiment and the two embodiments following this one by employing a reversible bubble assembly **220** rather than a telescoping enclosure **140**. The bubble assembly **220** of outlet covers **103**, **104** and **105** can be positioned in a protruding position (see, e.g., FIGS. **28** and **29**) and a receding position (see, e.g., FIGS. **30** and **31**) rather than an expanded position and a collapsed position as with the telescoping enclosure **140**. Each lid **119** in outlet covers **103**, **104** and **105** may be arranged in an open position (see, e.g., FIGS. **29** and **31**) or a closed position (see, e.g., FIGS. **28** and **30**), which may look different than previously described outlet covers **101** and **102** if two hinge assemblies **120** are employed, but the operation is generally the same as described above.

(109) As shown in FIG. **27**, an outlet cover **103** includes a lid **119** with a detachable and reversible bubble assembly **220**. A bottom edge of the bubble assembly **220** includes a lip **236** that seats into slot **235** in either a protruding position (see FIGS. **28** and **29**) or in a receding position (see FIGS. **30** and **31**). A clip assembly **230** on the frame clips on to the bubble assembly **220**. The clip assembly **230** may be a cantilevered snap-fit fastener with a clip **232** that grasps onto a catch **231P** (resulting in bubble assembly **220** in a protruding position) or onto a catch **231R** (resulting in bubble assembly **220** in a receding position). The bubble assembly **220** may switch between the protruding position and the receding position by simply releasing the clip assembly **230**, removing the bubble assembly **220** from the slot **235**, rotating the bubble assembly by 180° around the long central axis, re-seating the lip **236** into the slot **235**, and then attaching clip assembly **230** to either catch **231R** (for receding position) or catch **231P** (for protruding position). By configuring the lid frame to receive the bubble assembly **220** in either of the first position or the second position, the cover assembly structure is simplified in that cord port covers for the cord ports **116** may not be required. The bubble assembly **220** oriented in the second position (FIGS. **30-31**) protects the electrical outlet and acts as at least a partial barrier against water and other contaminants.

(110) In some embodiments, hinge assembly **120** includes a hinge bias member **126**, such as a spring, torsion member, or the like. Although not depicted in FIGS. **27-31**, the hinge assembly **120** may be positioned on a long edge of the lid **119** and base **110** rather than a short edge (as shown), or, like other embodiments in this disclosure, two hinge assemblies **120** on adjacent sides of the lid and base may be provided.

(111) FIGS. **32-44** depict various views of a non-limiting embodiment of a cover **104** for an electrical outlet. The bubble assembly **220** of the outlet cover **104** can be oriented in a protruding position (see, e.g., FIGS. **33** and **34**) or in a receding position (see, e.g., FIGS. **35** and **36**). Lid **119** of outlet cover **104** may be pivoted to an open position (see, e.g., FIGS. **34** and **36**) or to a closed position (see, e.g., FIGS. **33** and **35**) on either of two hinged axes when two hinge assemblies **120** are employed. The general operation and components of an electrical outlet cover of this embodiment is, nevertheless, similar to that described in other embodiments of this disclosure.

While not all of the disclosed outlet covers are displayed in this way, any of outlets covers **101**, **102**, **103**, **104**, or **105** may be oriented on a wall or wall plate **190** in either a “portrait” or “vertical” orientation (see, e.g., FIGS. **33-36**) or a “landscape” or “horizontal” orientation (see, e.g., FIGS. **37-40**).

(112) In this particular embodiment, an outlet cover **104** includes a frame **130**, a lid **119**, and a bubble assembly **220** that may be combined to form an electrical outlet cover assembly. The outlet cover **104** of this particular embodiment comprises two hinge assemblies **120**—a first hinge assembly **120L** on a long side of the base **110** and lid **119**, and a second hinge assembly **120S** on a short side of the base **110** and lid **119**. Pin **124** may be removed from either hinge assembly **120S** or **120L** to allow lid **119** to be rotated into various configurations. The pin **124** inserted in hinge assembly **120S** configures outlet cover **104** to open in a “portrait” orientation (see, e.g., FIGS. **33-36**). The pin **124** inserted in hinge assembly **120L** configures outlet cover **104** to open in a “landscape” orientation (see, e.g., FIGS. **37-40**).

(113) For example, the lid **119** and bubble assembly **220** may switch between the protruding position and the receding position in a “portrait” orientation by simply removing the pin **124** from hinge assembly **120S**, separating hinge members **121S** and **122S**, rotating the bubble assembly **220** by 180° around the long central axis, re-joining hinge members **121S** and **122S**, and then replacing the pin **124** into hinge assembly **120S**.

(114) FIGS. **41A-E** depict a “portrait” orientation opening outlet cover **104** with the bubble assembly **220** in a protruding position so that the bubble portion of the bubble assembly extends away from the base. FIGS. **42A-F** depict a “portrait” orientation opening outlet cover **104** with the bubble assembly **220** in a receding position so that the bubble portion of the bubble assembly extends toward and into the base. FIGS. **43A-F** depict a “landscape” orientation opening the outlet cover **104** with the bubble assembly **220** in a protruding position. FIGS. **44A-F** depict a “landscape” orientation opening the outlet cover **104** with the bubble assembly **220** in a receding position.

(115) It is particular to note that the hinge assemblies are constructed such that the lid hinge members and the base hinge members can mate with the bubble assembly **220** in either the protruding position or the receding position. By extending the base hinge members away from the base with hinge member arms, and by establishing the lid hinge members so that there is an unimpeded portion so that the lid can close on the base in both the protruding position and in the receding position without interference from any portion of the base. The bubble assembly **220** may switch between the protruding position and the receding position by simply removing the hinge pin **124**, removing the bubble assembly **220** from the base, rotating the bubble assembly by 180° around the long central axis or the short central axis (depending upon whether the user wants the cover to be oriented horizontally or vertically and reattaching the hinge pin **124**. By configuring the base to receive attachment of the bubble assembly **220** in either a protruding position or a receding position, the cover assembly structure is simplified in that cord port covers for the cord ports **116** may not be required. The bubble oriented in the receding position protects the electrical outlet and acts as at least a partial barrier against water and other contaminants.

(116) FIGS. **45-53** depict various views of a non-limiting implementation of a cover **105** for an electrical outlet. The bubble assembly **220** of outlet cover **105** can be positioned in a protruding position (see, e.g., FIGS. **46** and **47**) and a receding position (see, e.g., FIGS. **48** and **49**) rather than an expanded position and a collapsed position as with a telescoping enclosure illustrated in the first two embodiments of this disclosure. The lid **119** of the outlet cover **105** may be in an open position (see, e.g., FIGS. **47** and **49**) or a closed position (see, e.g., FIGS. **46** and **48**), and may comprise one or two hinge assemblies, but the operation is generally the same as described above in relation to the first two embodiments of this disclosure. While not all of the disclosed outlet covers are displayed in this way, any of outlet covers **101**, **102**, **103**, **104**, or **105** may be oriented on a wall or wall plate **190** in either a “portrait” or “vertical” orientation (see, e.g., FIGS. **46-49**) or a

“landscape” or “horizontal” orientation (see, e.g., FIGS. 50-53).

(117) In outlet cover **105**, the lid **119** includes a detachable and reversible bubble assembly **220**. A bottom edge of the frame **130** includes a gate **260** that may be removably attached to the frame **130** to allow the bubble assembly **220** to slide into and out of a track **262**. Bubble assembly **220** may include a flange **264** sized and shaped to slidably mate with track **262** and form a water resistant barrier. Flange **264** of the bubble assembly **220**, if used, slidably fits within track **262** in either the protruding position or in the receding position (by rotating the bubble assembly **220** axially) 180°. The gate **260** releasably couples or fastens to the frame **130** using snap-fit couplings or other suitable couplings.

(118) The bubble assembly **220** may switch between the protruding position (FIGS. 46-47 and 50-51) and the receding position (FIGS. 48-49 and 52-53) by removing the gate **260**, removing the bubble assembly **220** from the track **262**, rotating the bubble assembly by 180° around either the long central axis or the short central axis, reinserting the bubble assembly **220** into the track **262**, and then reattaching the gate **260** to the frame **130**. By configuring the lid frame to receive the bubble cover in either of the first position or the second position, the cover assembly structure is simplified in that cord port covers for the cord ports **116** may not be required. The bubble assembly **220** oriented in the second position (FIGS. 48-49 and 52-53) protects the electrical outlet and acts as at least a partial barrier against water and other contaminants.

(119) FIGS. 54-64 depict various views of a non-limiting implementation of an outlet cover **106** for an electrical outlet. As shown in FIG. 55, an outlet cover **106** includes a base **264** with at least one electrical box mounting screw aperture **266** and an electrical device aperture **268** extending through the base. The base **264** includes an electrical device aperture **268** that allows the electrical outlet to be accessible through the outlet cover **106**. The outlet cover **106** may be attached to an electrical outlet by screwing a screw into electrical box mounting screw apertures **266**. The base **264** may include an insert **270** that allows a variety of different types of electrical outlets to mate with a specific type of outlet cover **106**. The base **264** of outlet cover **106** may include one or more cord port apertures **276** through a base side wall **278**. A cord port aperture **276** operates to allow a power cord **119** to enter the outlet cover **106** and couple to the electrical outlet. A gasket **272** may be used to limit water and other particles from reaching the electrical outlet by being sandwiched between the back of the base **264** and the adjacent wall. As more specifically shown in FIG. 62, the gasket **272** includes a gasket aperture **274** to allow access to the electrical outlet through the outlet cover **106**.

(120) The base **264** is hingedly coupled to a lid **279** along a first side **281** of a lid frame **280** (FIG. 54). The lid **279** may be pivotally lifted from the base **264** to move the lid **279** from a closed position (as in FIG. 54) to an open position (as in FIG. 55). As illustrated more specifically in FIGS. 57-58, in the closed position, a latch assembly **282** may be used to lock the lid frame **280** to the base **264** through the coupling of a first latch member **284** on the lid frame and a second latch member **286** on the base **264**.

(121) As shown in FIG. 63, the lid frame **280** includes a central aperture **288** and may include a lid frame gasket **290** surrounding the central aperture **288** on a rear surface **292** of the lid frame **280**. The lid frame gasket **290** may be coupled to the lid frame **280** through one or more prongs **291** extending from the rear surface **292** of the lid frame **280** and through the lid frame gasket **290**. An enclosure **294** (FIG. 61) slidably couples with the lid frame **280** within the central aperture **288**. The enclosure **294** slides between a collapsed, not-in-use position (as in FIG. 57) and an extended, in-use position (as in FIG. 60). When in the extended, in-use position, the enclosure **294** provides enough space inside of the outlet cover **106** for the power cord **119** to couple to the electrical outlet and exit the outlet cover **106** through the cord port aperture **276** while still enclosing the electrical outlet with the lid **279** closed.

(122) As illustrated in FIGS. 60 and 61, the enclosure **294** includes a continuous side wall **296** and a front wall **298**. The side wall **296** includes a ledge **300** located near a back edge **302** of the

enclosure side wall **296**. When the enclosure **294** is in the extended, in-use position, the ledge **300** comes into contact with the lid frame gasket **290**, as shown in FIG. **60**. This contact helps to limit the entrance of water and other particles into the outlet cover **106** when in use. The side wall **296** also includes a leading edge **304** distal to the back edge **302**. The front wall **298** may include a convex front surface **306**, a rear surface **308**, and an aperture **309** covered by a window **311** made of a transparent material. In particular embodiments, the front surface **306** will be the window **311** so that a separate aperture **309** holding the window **311** is not necessary.

(123) The window **311** allows a user to see the inside of the outlet cover **106** when the lid **279** is in the closed position. The window **311** may include a ridge or groove near its edge surface adapted to mate with a corresponding groove or ridge adjacent to the front wall opening. Additionally, clips **313** on each side of the window **311** may allow the window **311** (see FIG. **57**) to be seated in the front wall **298** with the edge of the aperture **309** fitted into the clips **313** of the window **311** to retain the window **311** in the front wall **298**. In some embodiments, the front side of the window **311** does not extend beyond the front side of the front wall (see, e.g., FIG. **54**).

(124) In addition, the window **311** and the front wall **298** may both include a series of grooves and ridges **315** around an edge of the window **311** and on the front side or rear side of the front wall **298**. These series of grooves and ridges **315** may mate together when the window **311** is seated in the front wall **298**, as illustrated in FIGS. **66** and **67**. This creates a tortuous path and restricts the entrance of water and other contaminants through the aperture **309**. The window **311** may couple with the front wall **298** by being inserted into the aperture **309** either from the front or through the back of the front wall **298**. Although the particular example provided in FIGS. **66** and **67** show the window **311** attached to the front side of the front wall **298**, with the series of grooves and ridges **315** on the front side of the front wall **298**, the same structure of grooves and ridges **315** could alternately be formed on the rear side of the front wall **298** and the window **311** could be mated to that structure and may provide a stronger connection. An edge of the front wall may be beveled or thinned as it extends outward to mate with a corresponding surface surrounding the aperture **309** on the front surface **298** for a more consistent transition between the window **311** edge and the front surface **306** of the front wall **298**. By attaching the window to the lid in this way, no heat staking, solvent bonding or ultrasonic welding is necessary. The two pieces, window **311** and front wall **298**, snap together, saving time and tooling cost, yet still restrict water entry due to the tortuous path.

(125) As shown in FIG. **64**, the rear surface **308** includes a connecting wall **310** with a first perimeter **312** smaller than a second perimeter **314** of the front surface **306**. The connecting wall **310** extends rearward of the rear surface **308** and engages with the leading edge **304** of the side wall **296**. When the outlet cover **106** is manufactured in this way, the ledge **300** and the front surface **306** both have perimeters larger than the perimeter of the central aperture **288**, therefore limiting the risk of pulling the enclosure **294** free of the lid frame **280**.

(126) As shown in FIGS. **60** and **62**, the lid frame **280** has a leading surface **316** which surrounds the central aperture **288**. A lid frame lip **318** surrounds and extends forward of the leading surface **316**. The second perimeter **314** of the enclosure front wall **298** is smaller than an inner perimeter **320** of the lid frame lip **318**, as shown in FIG. **56**. This allows the enclosure front wall **298** to sit within the lid frame lip **318** when the enclosure **294** is in the collapsed, not-in-use position. Alternatively, the lid frame lip **318** may include an outer perimeter smaller than the second perimeter **314** of the enclosure front wall **298** so that the lid frame lip **318** sits around the outside of the enclosure front wall **298**. As FIG. **58** further illustrates, at least two tabs **322** may extend outward from the enclosure front wall **298** on opposing sides. In particular embodiments, when the enclosure **294** is in the collapsed, not-in-use position, the convex front surface **306** extends forward of the lid frame lip **318**, providing a gap **324** between the at least two tabs **322** and the lid frame lip **318**. The at least two tabs **322** and the gap **324** may increase the ease with which the enclosure **294** is moved between the collapsed, not-in-use position and the extended, in-use position. Although the specific

examples illustrated in FIGS. 54-62 show the lid having a convex surface that curves along only one axis, particular embodiments contemplated may include convex surfaces along more than one axis to create an elliptical or spherical front surface, or other partial curves and flat surfaces to create more complex surfaces such as pyramidal, frustum, truncated pyramid, or other-shaped front surface.

(127) As specifically shown in FIG. 55, the base 264 may include a forward edge 326 having an inner lip 328 and an outer lip 330. FIG. 63 further illustrates the lid frame 280 including a second lip 332 which extends rearward on the lid frame rear surface 292 and surrounding the lid frame gasket 290. The forward edge 326 and the second lip 332 interact when the lid frame 280 is in the closed position, as shown in FIG. 60, with the second lip 332 inserting between the inner lip 328 and the outer lip 330, providing further protection against the entrance of water and other particles into the outlet cover 106.

(128) In some embodiments, the front wall of the enclosure 140 is substantially flat (see FIGS. 1 and 15, for example). In other embodiments, the front wall 298 of the enclosure 294 includes a convex front surface 306. The convex front surface 306 not only provides a gap 324 (FIG. 58) to assist in pulling out the enclosure 294, as illustrated in the cross-sectional view of FIG. 68, inclusion of a convex front surface 306 provides a more space within the enclosure 294 for an electrical plug cord 340 to fit within the enclosure 294 when the outlet cover 106 is closed. With the convex front surface 306 curving outward when compared to the enclosure side wall 296, the cord 340 has additional room to fold back on itself and extend toward the cord port exit 352 of the enclosure 294. This helps the outlet cover 106 to have an appearance of a shorter profile while allowing more space for the cord 340.

(129) In embodiments that include a window 311, like the examples illustrated in FIGS. 54 and 62, like the front surface 306, the window 311 may be convex too, so that it curves outward in relation to, and extends forward of, the front edge 342 of the side wall 296 of the enclosure 294 and curves outward in relation to, and extends forward of the edge 344 of the flange 346 of the front surface 306. This applies whether the front surface is flat, like in FIGS. 1-26, or has a curved or other-shaped front surface, like in FIGS. 54-65.

(130) For the embodiment illustrated in FIGS. 69A-69B, the various components of the outlet cover 107 are the same as the outlet cover 106 illustrated in FIG. 62 except that the window 348 is different. In particular embodiments, for example in the outlet cover 107 illustrated in FIGS. 69A-69B, the window 348 may be formed to itself include a portion of the window 348 that extends outward in relation to the front surface 306 of the enclosure 294 as a bulge 350. As illustrated in FIG. 69B, this provides even more cord 340 space within the enclosure without increasing the dimensions of the outlet cover 107 except at the window 348. In particular embodiments, the entire front wall 298 of the enclosure 294 may be formed of a transparent material so that the entire front wall 298 is a window and the front surface 306, therefore, has a window in the enclosure front wall 298.

(131) FIGS. 70A-C and 71A-C illustrate two embodiments of outlet cover windows 348, each having a bulge 350 that extends outward in relation to the front surface 306 of the enclosure 294 and clips 313 to help secure the window to the aperture 309 of the front wall 298. In the first embodiment shown in FIGS. 70A-C, the bulge 350 has a more immediate extension beyond the front surface 306 of the enclosure 294. In the second embodiment shown in FIGS. 71A-C, the bulge 350 has a more gradual extension beyond the front surface 306 of the enclosure 294. Both include convex outer surfaces, but that is not a requirement of the windows 348. The windows 311, 348 may, in some embodiments, be transparent, translucent, or opaque. Although in some embodiments the windows 311, 348 of this disclosure are intended to provide an outside view into the inside of the outlet covers, some embodiments may be opaque so an observer cannot see into the outlet cover but can still receive the advantage of the increased space within the cover.

(132) It will be understood that outlet cover implementations are not limited to the specific

assemblies, devices and components disclosed in this document, as virtually any assemblies, devices and components consistent with the intended operation of an outlet cover implementation may be utilized. Accordingly, for example, although particular outlet covers, lids, sleeves, latches, snap-fit couplers, hinges, frames, enclosures, bubble covers, housings, joints, protrusions, ledges, clamps, grooves, ridges, couplers, fasteners, power sockets, and other assemblies, devices and components are disclosed, such may include any shape, size, style, type, model, version, class, measurement, concentration, material, weight, quantity, and/or the like consistent with the intended operation of an outlet cover implementation. Implementations are not limited to uses of any specific assemblies, devices and components; provided that the assemblies, devices and components selected are consistent with the intended operation of an outlet cover implementation. (133) Accordingly, the components defining any outlet cover implementations may be formed of any of many different types of materials or combinations thereof that can readily be formed into shaped objects provided that the components selected are consistent with the intended operation of an outlet cover implementation. For example, the components may be formed of: polymers such as thermoplastics (such as ABS, Fluoropolymers, Polyacetal, Polyamide; Polycarbonate, Polyethylene, Polysulfone, and/or the like), thermosets (such as Epoxy, Phenolic Resin, Polyimide, Polyurethane, Silicone, and/or the like), any combination thereof, and/or other like materials; glasses (such as quartz glass), carbon-fiber, aramid-fiber, any combination thereof, and/or other like materials; composites and/or other like materials; metals, such as zinc, magnesium, titanium, copper, lead, iron, steel, carbon steel, alloy steel, tool steel, stainless steel, brass, tin, antimony, pure aluminum, 1100 aluminum, aluminum alloy, any combination thereof, and/or other like materials; alloys, such as aluminum alloy, titanium alloy, magnesium alloy, copper alloy, any combination thereof, and/or other like materials; any other suitable material; and/or any combination of the foregoing thereof.

(134) For the exemplary purposes of this disclosure, sizing, dimensions, and angles of outlet cover implementations may vary according to different implementations.

(135) Various outlet cover implementations may be manufactured using conventional procedures as added to and improved upon through the procedures described here. Some components defining outlet cover implementations may be manufactured simultaneously and integrally joined with one another, while other components may be purchased pre-manufactured or manufactured separately and then assembled with the integral components. Various implementations may be manufactured using conventional procedures as added to and improved upon through the procedures described here.

(136) Accordingly, manufacture of these components separately or simultaneously may involve extrusion, pultrusion, vacuum forming, injection molding, blow molding, resin transfer molding, casting, forging, cold rolling, milling, drilling, reaming, turning, grinding, stamping, cutting, bending, welding, soldering, hardening, riveting, punching, plating, and/or the like. If any of the components are manufactured separately, they may then be coupled with one another in any manner, such as with adhesive, a weld, a fastener (e.g. a bolt, a nut, a screw, a nail, a rivet, a pin, and/or the like), wiring, any combination thereof, and/or the like for example, depending on, among other considerations, the particular material forming the components.

(137) It will be understood that the assembly of outlet covers are not limited to the specific order of steps as disclosed in this document. Any steps or sequence of steps of the assembly of outlet covers indicated herein are given as examples of possible steps or sequence of steps and not as limitations, since various assembly processes and sequences of steps may be used to assemble outlet covers.

(138) The outlet cover implementations are described being used to configure a lid in various protruding, expanded, receding, or collapsed positions. Nevertheless, implementations are not limited to uses relating to the foregoing. Rather, any description relating to the foregoing is for the exemplary purposes of this disclosure, and implementations may also be used with similar results for a variety of other applications requiring a configurable outlet cover. For example,

implementations may be used to adjustably position an outlet cover to, for example: reduce the size for shipping, house ancillary parts in a cavity, winterize an outlet cover, and so on.

Claims

1. An outlet cover for an electrical outlet, the outlet cover comprising: a base configured to couple to the electrical outlet, the base having an outlet aperture configured to expose the electrical outlet through the base; and a lid pivotally coupled to the base and configured to pivot between a closed position and an open position, the lid having: a frame with a central aperture extending therethrough; and an enclosure slidably coupled to the frame within the central aperture, the enclosure comprising a sleeve with a front edge and a back edge distal to the front edge; wherein the enclosure is configured to slide within the central aperture between an expanded position and a collapsed position; wherein the front edge has a flange extending outward from the sleeve and the flange is configured to seat against the frame when the enclosure is in the collapsed position; and wherein the back edge is configured to seat against the base when the lid is in the closed position and the enclosure is in the collapsed position.
2. The outlet cover of claim 1, wherein the enclosure is configured to snap into the expanded position.
3. The outlet cover of claim 1, further comprising a locking assembly configured to allow a lock to be threaded through the locking assembly when the lid is in the closed position and lock the lid in the closed position.
4. The outlet cover of claim 3, wherein the locking assembly comprises at least two of an enclosure locking aperture, a frame locking aperture, and a base locking aperture, wherein when the lid is in the closed position and the enclosure is in the collapsed position, the at least two of the enclosure locking aperture, the frame locking aperture, and the base locking aperture are aligned and positioned in proximity to each other to allow the lock to be threaded through the at least two of the enclosure locking aperture, the frame locking aperture, and the base locking aperture.
5. The outlet cover of claim 1, wherein the base has a trough configured to mate with the lid when the lid is in the closed position to create a tortuous path configured to resist passage of water and dirt between the base and the lid into the outlet cover.
6. The outlet cover of claim 1, wherein the base has an insert configured to adapt the outlet cover to a variety of electrical outlets.
7. The outlet cover of claim 1, further comprising a latch assembly configured to releasably attach the lid to the base when the lid is in the closed position.
8. An outlet cover for an electrical outlet, the outlet cover comprising: a base configured to couple to the electrical outlet, the base having an outlet aperture configured to expose the electrical outlet through the base and a cord port configured to allow a power cord to enter the outlet cover and couple to the electrical outlet; and a lid pivotally coupled to the base and configured to pivot between a closed position and an open position, the lid having: a frame with a central aperture extending therethrough; and an enclosure slidably coupled to the frame within the central aperture, the enclosure comprising a sleeve with a front edge and a back edge distal to the front edge; wherein the enclosure is configured to slide within the central aperture between an expanded position and a collapsed position; wherein the front edge has a flange extending outward from the sleeve and the flange is configured to seat against the frame when the enclosure is in the collapsed position; and wherein the back edge is configured to seat against the base when the lid is in the closed position and the enclosure is in the collapsed position.
9. The outlet cover of claim 8, wherein the enclosure is configured to snap into the expanded position.
10. The outlet cover of claim 8, further comprising a locking assembly configured to allow a lock to be threaded through the locking assembly when the lid is in the closed position and lock the lid

in the closed position.

11. The outlet cover of claim 10, wherein the locking assembly comprises at least two of an enclosure locking aperture, a frame locking aperture, and a base locking aperture, wherein when the lid is in the closed position and the enclosure is in the collapsed position, the at least two of the enclosure locking aperture, the frame locking aperture, and the base locking aperture are aligned and positioned in proximity to each other to allow the lock to be threaded through the at least two of the enclosure locking aperture, the frame locking aperture, and the base locking aperture.

12. The outlet cover of claim 8, wherein the base has a trough configured to mate with the lid when the lid is in the closed position to create a tortuous path configured to resist passage of water and dirt between the base and the lid into the outlet cover.

13. The outlet cover of claim 8, wherein the base has an insert configured to adapt the outlet cover to a variety of electrical outlets.

14. The outlet cover of claim 8, further comprising a latch assembly with a lid latch member fixed to the lid and a base latch member fixed to the base, wherein the lid latch member and the base latch member are configured to align when the lid is in the closed position, wherein the latch assembly automatically locks when the lid is in the closed position.

15. An outlet cover for an electrical outlet, the outlet cover comprising: a base configured to couple to the electrical outlet, the base having an outlet aperture configured to expose the electrical outlet through the base and a cord port configured to allow a power cord to enter the outlet cover and couple to the electrical outlet; a lid pivotally coupled to the base and configured to pivot between a closed position and an open position, the lid having: a frame with a central aperture extending therethrough; and an enclosure slidably coupled to the frame within the central aperture, the enclosure comprising a sleeve with a front edge and a back edge distal to the front edge; wherein the enclosure is configured to slide within the central aperture between an expanded position and a collapsed position; wherein the front edge has a flange extending outward from the sleeve and the flange is configured to abut the frame when the enclosure is in the collapsed position; and wherein the back edge is configured to abut the base when the lid is in the closed position and the enclosure is in the collapsed position; and a latch assembly configured to releasably attach the lid to the base when the lid is in the closed position.

16. The outlet cover of claim 15, wherein the enclosure is configured to snap into the expanded position.

17. The outlet cover of claim 15, further comprising a locking assembly configured to allow a lock to be threaded through the locking assembly when the lid is in the closed position and lock the lid in the closed position.

18. The outlet cover of claim 17, wherein the locking assembly comprises at least two of an enclosure locking aperture, a frame locking aperture, and a base locking aperture, wherein when the lid is in the closed position and the enclosure is in the collapsed position, the at least two of the enclosure locking aperture, the frame locking aperture, and the base locking aperture are aligned and positioned in proximity to each other to allow the lock to be threaded through the at least two of the enclosure locking aperture, the frame locking aperture, and the base locking aperture.

19. The outlet cover of claim 15, wherein the base has a trough configured to mate with the lid when the lid is in the closed position to create a tortuous path configured to resist passage of water and dirt between the base and the lid into the outlet cover.

20. The outlet cover of claim 15, wherein the latch assembly automatically locks when the lid is in the closed position.
