

Claims

1. A lid for a junction box the junction box having one or more walls defining a cavity and an opening, wherein the lid comprises:
 - 5 a structure arranged to connect to one or more walls to close and seal the opening to prevent ingress of foreign material, at least a portion of the structure being transparent to visible light to enable visual inspection inside the junction box; and
 - a cover being opaque to at least a wavelength or a band of wavelengths of electromagnetic radiation and arranged to selectively: (a) shield the transparent portion
 - 10 of the structure from direct impingement of a wavelength or a band of wavelengths to prevent transmission of the wavelength or a band of wavelengths into the junction box; and (b) enable visual inspection inside of the junction box through the transparent portion.
- 15 2. The lid of claim 1 wherein the cover is arranged to selectively shield the transparent portion and enable visual inspection by being coupled to the structure or junction box in a manner wherein the cover is movable between a closed position where the cover overlies a corresponding transparent wall to prevent transmission of wavelength or band of wavelengths into the junction box and an opened position where the cover is
- 20 displaced from the corresponding transparent wall to enable visual inspection inside of the junction box.
3. The lid according to claim 1 or 2 wherein the wavelength or a band of wavelengths of electromagnetic radiation in relation to which the cover is opaque comprises
- 25 wavelengths corresponding to UV radiation.
4. The lid according to claim 1 or 2 wherein the wavelength or a band of wavelengths of electromagnetic radiation in relation to which the cover is opaque comprises wavelengths ranging from UV radiation to IR radiation, inclusive.
- 30 5. The lid according to any one of claims 2-4 wherein the cover is biased toward the closed position.
6. The lid according to claim 5 wherein the cover is pivotally coupled to the structure and
- 35 gravity biased toward the closed position.

7. A junction box comprising:
one or more walls which together form a sealable enclosure wherein at least a portion
of one of the walls is transparent to visible light to enable visual inspection inside the
junction box, and the remaining walls are opaque to electromagnetic radiation in a
wavelength band from UV to IR inclusive; and
a cover coupled with the one or more walls, the cover being opaque to at least a
wavelength or a band of wavelengths of electromagnetic radiation and arranged to
selectively: (a) shield the transparent portion of the structure from direct impingement
of a wavelength or a band of wavelengths to prevent transmission of the wavelength or
a band of wavelengths into the junction box; and (b) enable visual inspection inside of
the junction box through the transparent portion.
8. The junction box of claim 7 wherein the cover is arranged to selectively shield the
transparent portion and enable visual inspection by being coupled to the one or more
walls in a manner wherein the cover is movable between a closed position where the
cover overlies the at least the transparent portion to prevent transmission of
wavelength or band of wavelengths into the junction box and an opened position where
the cover is displaced from the at least the transparent portion to enable visual
inspection inside of the junction box.
9. The junction box according to claim 7 or 8 wherein the wavelength or a band of
wavelengths of electromagnetic radiation in relation to which the cover is opaque
comprises wavelengths corresponding to UV radiation.
10. The junction box according to claim 7 or 8 wherein the wavelength or a band of
wavelengths of electromagnetic radiation in relation to which the cover is opaque
comprises wavelengths ranging from UV radiation to IR radiation, inclusive.
11. The junction box according to any one of claims 8-10 wherein the cover is biased
toward the closed position.
12. The junction box according to claim 11 wherein the cover is pivotally coupled to the
structure and gravity biased toward the closed position.
13. The junction box according to any one of claims 7-12 further comprising at least one
thermo-chromatic indicator located inside of the junction box and arranged to provide a

visual indication of temperature within the junction box being greater than a threshold temperature.

14. A junction box comprising:
5 one or more other walls defining a cavity and an opening; and
a lid according to any one of claims 1-6 demountably connected to the one or more walls to cover and seal the opening.
15. A lid for a junction box the junction box having one or more walls defining a cavity and
10 an opening, wherein the lid comprises:
a structure arranged to mechanically connect to one or more of the other walls to close the opening, the at least a portion of the structure being transparent to visible light to enable visual inspection inside the junction box; and
a cover dimensioned to enable the cover to the wholly overlies the transparent portion of
15 the structure, the cover being opaque to at least UV electromagnetic radiation, and arranged to be movable between a closed position where the cover overlies the transparent portion to prevent transmission of UV radiation into the junction box and an opened position where the cover is displaced from the transparent portion to enable visual inspection inside of the junction box.
- 20 16. A junction box comprising:
a plurality of walls which together form a sealable enclosure wherein at least one of the walls, or has a portion thereof, is transparent to visible light to enable visual inspection inside the junction box, and the remaining walls are opaque to electromagnetic
25 radiation in the wavelength band from UV to IR inclusive; and
a cover for each transparent wall or transparent wall portion, each cover being opaque to at least UV electromagnetic radiation and arranged to be movable between a closed position where the cover overlies a corresponding transparent wall to prevent transmission of UV radiation into the junction box and an opened position where the
30 cover is displaced from the corresponding transparent wall to enable visual inspection inside of the junction box.
17. The junction box according to claim 16 wherein the cover is biased toward the closed position.
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18. The junction box according to claim 17 wherein the cover is pivotally coupled to the structure and gravity biased toward the closed position.