

Patent for sealing electrical boxes



AI Overview

Electrical box sealing patents focus on maintaining vapor barriers and preventing air infiltration using gaskets, seals, or vapor barrier covers. Modern Sealing Patents US10186852B2 describes an electrical box with a triangular cross-section seal on the exterior of the box's sidewall. The thin end of the seal enters the wall opening first, and as the box is installed, the tapered surface compresses to form a tight seal around the box, maintaining the integrity of the wall's vapor barrier. This design is particularly useful for flush-mounted device boxes in walls, floors, and ceilings, ensuring minimal air leakage. US10447020B2 builds on similar principles for “old work” installations, where the wall, studs, and vapor barrier are already in place. The patent emphasizes maintaining the vapor barrier integrity when installing electrical boxes into existing structures, using a seal that interfaces with the wall and drywall layers. US11258243B1 introduces a vapor barrier cover for single-gang electrical boxes. This cover includes a body and flange with side and end walls projecting outward to form a planar front wall with an opening. It provides a seal between the electrical box and drywall without requiring a separate gasket, simplifying installation and reducing the need for additional work during construction. Earlier Innovations Joseph B. Close Jr.'s 1979 patent describes a flexible, air-impervious gasket that fits around the electrical device and wall opening. The gasket uses pressure-sensitive adhesive to seal the wall surface and the device, preventing air passage while accommodating protruding device components. This approach laid the groundwork for modern sealing methods by addressing air infiltration around mounted devices. Additional Considerations Some patents, like US12224567, focus on cable clamping within electrical boxes rather than sealing the box itself. While not directly a vapor or air seal, these designs improve installation efficiency and reduce the need for screws or wedges, indirectly supporting the integrity of the box installa...

Article Content

Best Caulks For Electrical Boxes Provide Great Protection And Sealing ...

Caulks for electrical boxes play a crucial role in sealing these gaps and ensuring the electrical system operates safely and efficiently. From a practical perspective, caulks for electrical

US5866845A

The cover and cord door each have respective gaskets which provide a fluid-tight seal to protect the electrical device. The cover can be manufactured for a single-gang or a multiple-gang...

Instagram

Electrical boxes located within the building thermal envelope are required to be air tight or made air tight by sealing them properly. They also have to be sealed to the drywall that they

Automatic random box sealer and method of sealing boxes of different ...

U.S. patent number 11,254,459 [Application Number 16/739,731] was granted by the patent office on 2022-02-22 for automatic random box sealer and method of sealing boxes of different sizes.

U.S. Patent for Automatic random box sealer and method of sealing boxes ...

In various embodiments, the timing of each step for each box can be coordinated such that the automatic random box sealer of the present disclosure maximizes the throughput of boxes

Vapor Seal Air-Sealed Electrical Boxes

With innovative products designed for the electrical contractor, Allied offers a complete line of wall and ceiling boxes for use in energy efficient homes to aid in

Cambridge Media Journals

The foam's sealing and fragment-surrounding properties may reduce environmental contamination, offering significant advantages over traditional dressings. Conclusion: This injectable 3D foam

Google Patents

For example, TI= (safety belt). Search by Cooperative Patent Classifications (CPCs): These are commonly used to represent ideas in place of keywords, and can also be entered in a search term

Best Electrical Boxes for Brick Walls: Reliable Solutions for Retrofit ...

Choosing the right electrical box for brick walls involves balancing space, mounting method, and durability. The selections below focus on boxes suitable for brick or retrofits, offering

Waterproof Outdoor Extension Cord and Electrical Box

Shop Walmart today for Every Day Low Prices on waterproof outdoor extension cords and weatherproof electrical boxes to protect your outdoor electrical needs.

U.S. Patent for Automatic random box sealer and method of sealing

Many different types of automatic box sealers have been known and have been commercially available in the packaging industry. One type of known box sealer is configured for

POLYURETHANE SEALANT

According to the present invention the term "cast in place sealant" is defined as sealant which is obtained by casting a reaction mixture directly onto the carrier where the sealant is to be

Box Shell

BOX SHELL is a patented enclosure system that completely seals electrical junction boxes — eliminating air infiltration, reducing energy loss, and meeting LEED, WELL, and Passive House

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U.S. Patent for Electrical box Patent (Patent # 4,724,282 issued ...

Various electrical boxes have been utilized which provide some means for securing an electrical cable to the box so as to prevent inadvertent disconnection or disengagement of the cable from the box.

US4927039A

The present invention relates to outlet or switch boxes as are used in electrical house wiring systems, telephone wiring installations, cable systems and similar applications.

LESSCO Air Vapor Barrier Electrical Outlet Sealing Box

Seal air leaks and moisture w/ the LESSCO Air Vapor Barrier Electrical Outlet Sealing Box. Prevent mold, improve efficiency, insulate exterior electrical boxes.

The Best Tape for Packing Moving Boxes

Choose the best tape for packing boxes with this clear guide to adhesives, widths, and sealing methods. Prevent popped seams, protect your

SEALING OF CONTROL CABINETS & ELECTRICAL DISTRIBUTION BOXES

Automated sealing solution for control cabinet construction The lifelines of highly automated industrial production for electrical distribution and for the control and safety technology of manufacturing plants

Sealing substance 275 ml Easy Gasket (1056583)

Easy Gasket is also extremely well suited to repairing damaged rubber parts of cars, trucks, boats, motorcycles, switch boxes, etc. For example repairing door

LESSCO UTILITY BOX

Air-vapor barrier box for outlets in locations that interrupt interior airtight layers). Air / vapor barrier box to seal electrical boxes when there is no service cavity

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