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Sahadeo et al.

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(54) **FRAMED WINDOW INSULATION HAVING A
RELEASABLE AND REATTACHABLE
FLEXIBLE IMPERMEABLE SHEET**

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USPC **52/203**; 52/656.1; 52/656.9; 52/204.593;
52/204.62; 52/204.51; 49/57; 160/368.1;
160/369; 160/DIG. 12

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52/653.1-653.2, 656.1, 656.7, 656.9, 656.4,
52/656.5, 203, 204.51, 204.54, 204.591;
52/160/369, 368.1, DIG. 12; 49/50, 57
See application file for complete search history.

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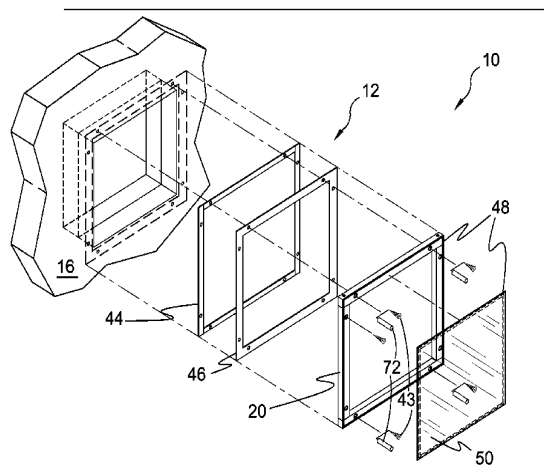
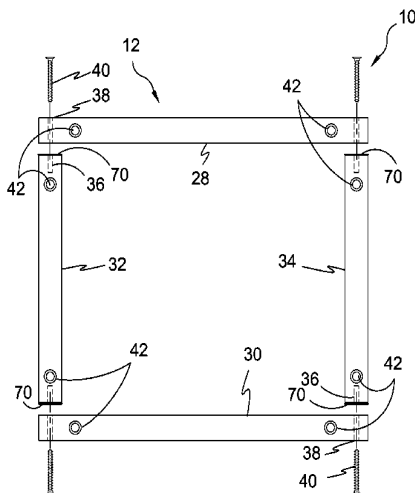
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(57) **ABSTRACT**

A window insulation having a frame with a track fixedly attached thereto and flexible impermeable sheeting having a rail member peripherally positioned and releasably mountable to said track member therein forming a window thermally insulative device that can be mounted to the wall over the window opening or mounted to the window jamb.

7 Claims, 12 Drawing Sheets



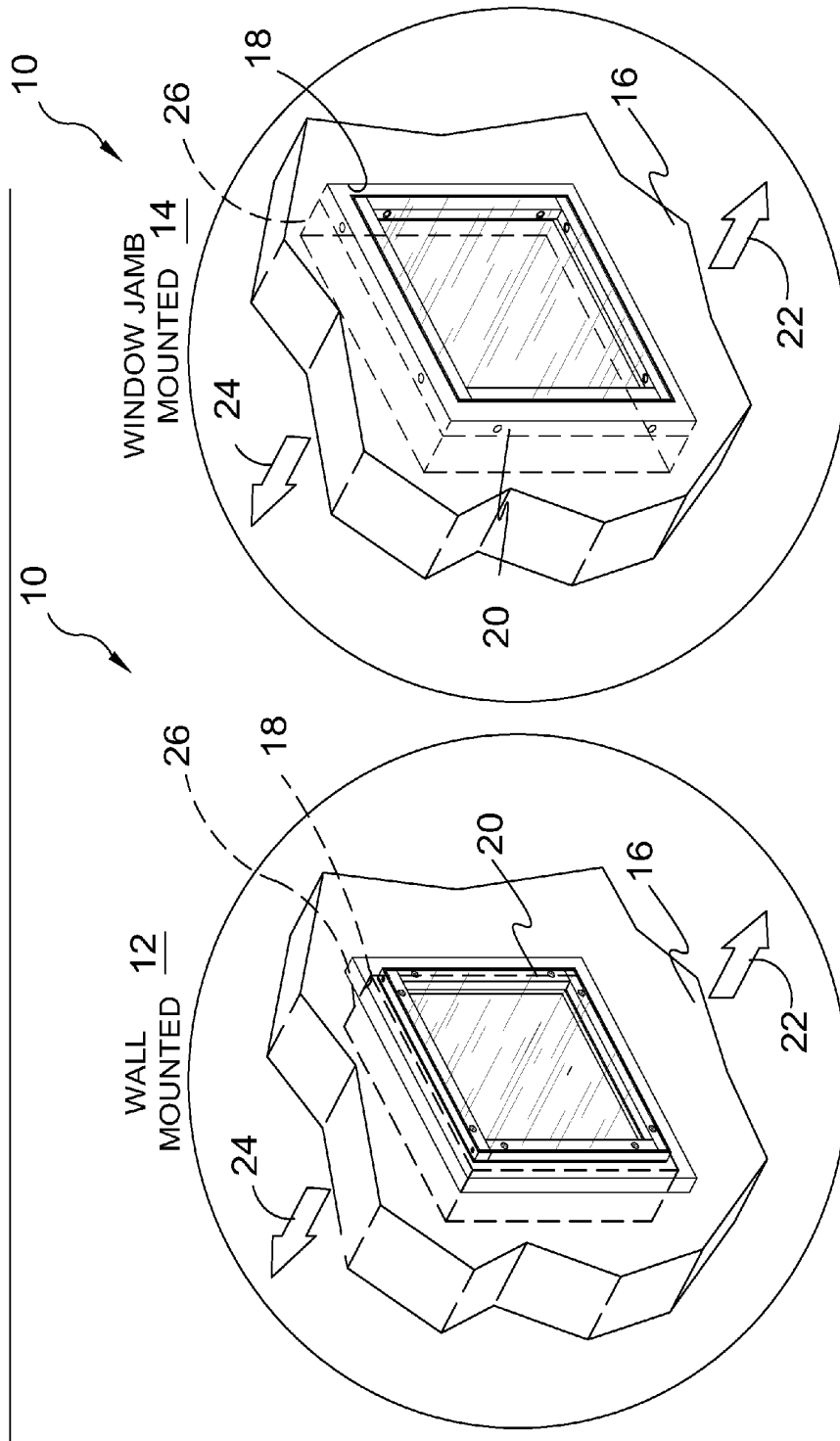


FIG. 1

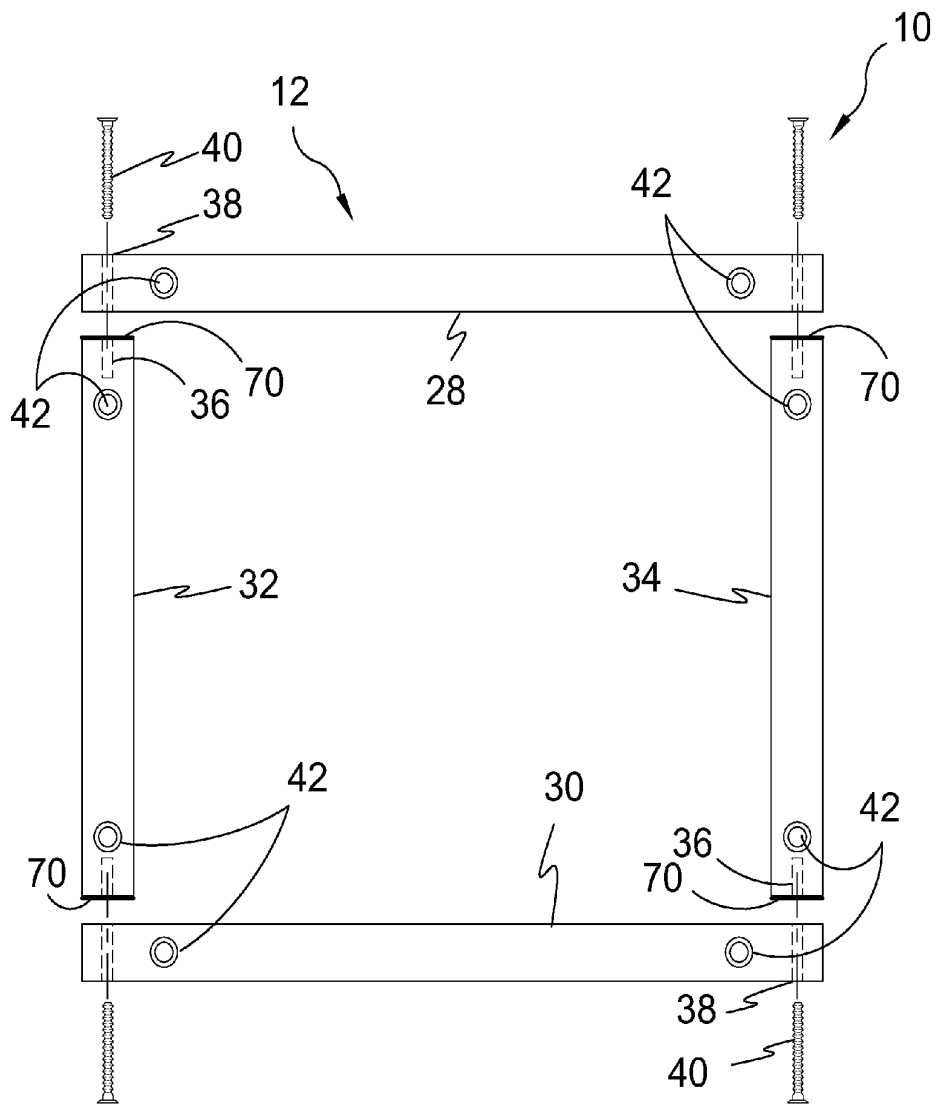


FIG. 2

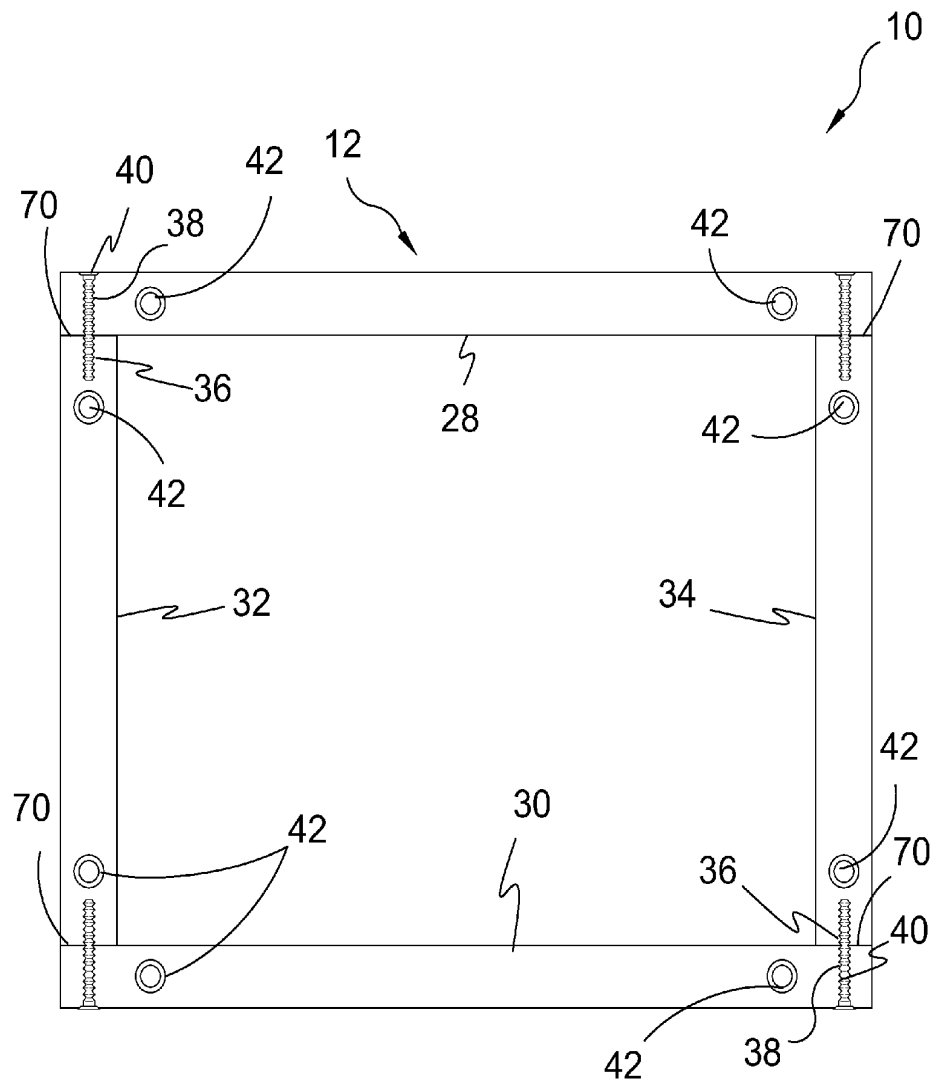


FIG. 3

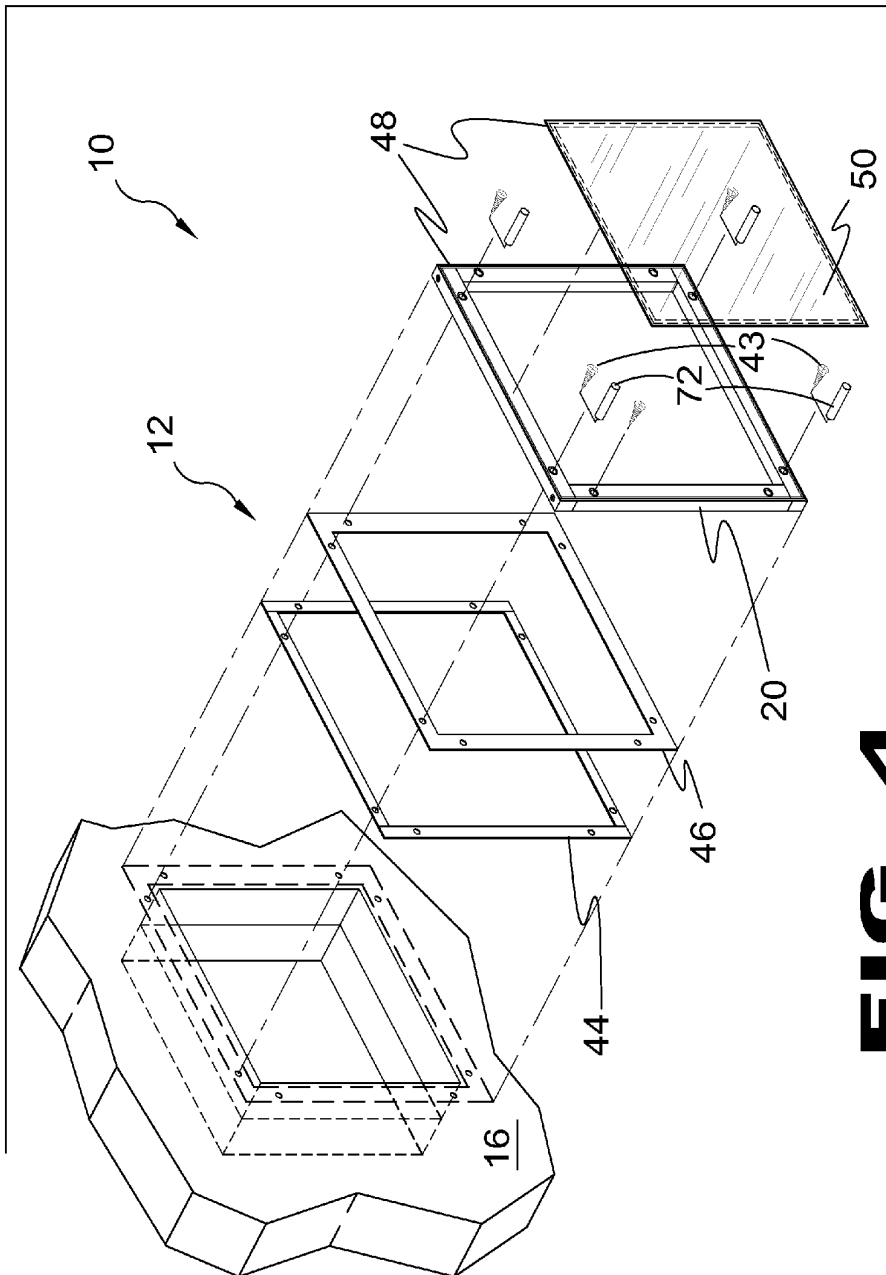


FIG. 4

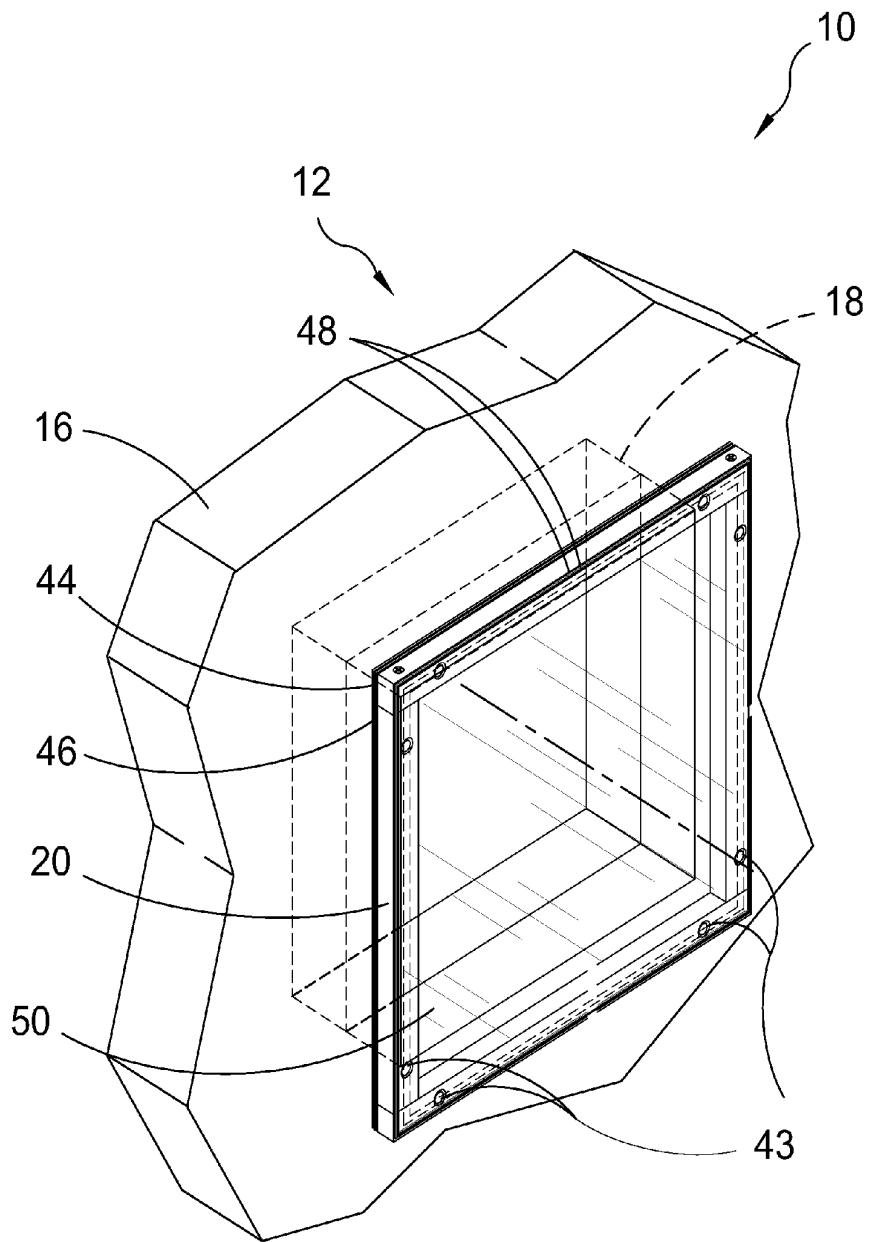


FIG. 5

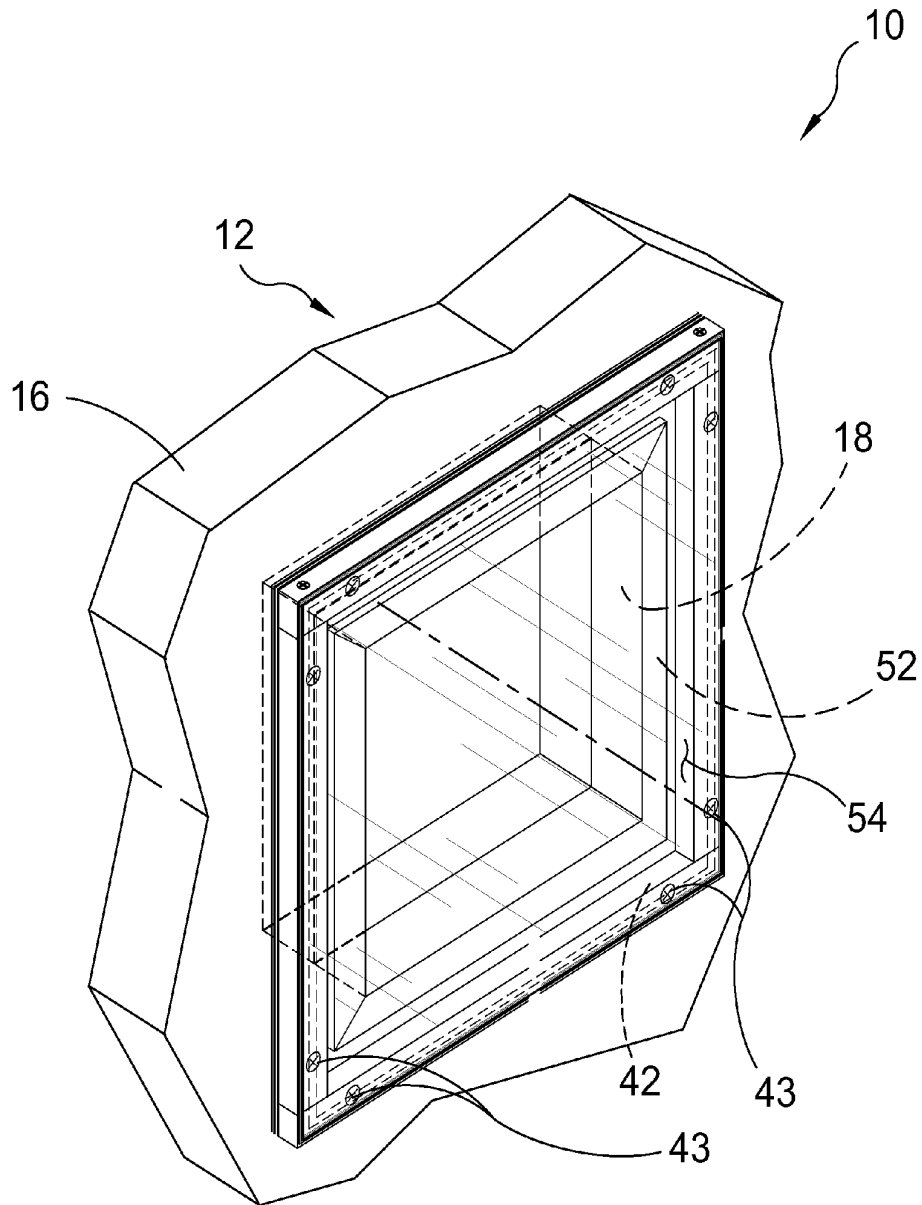


FIG. 6

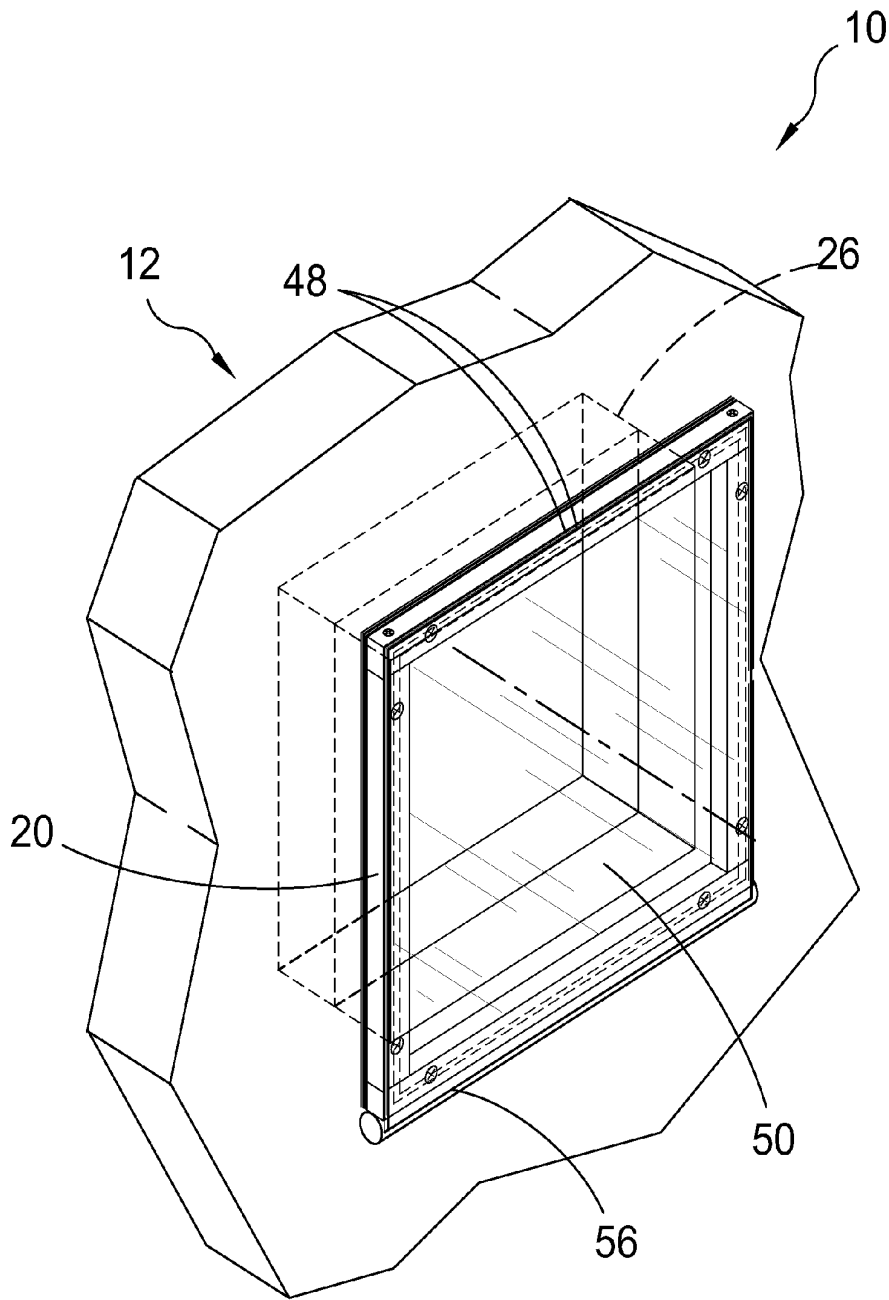


FIG. 7

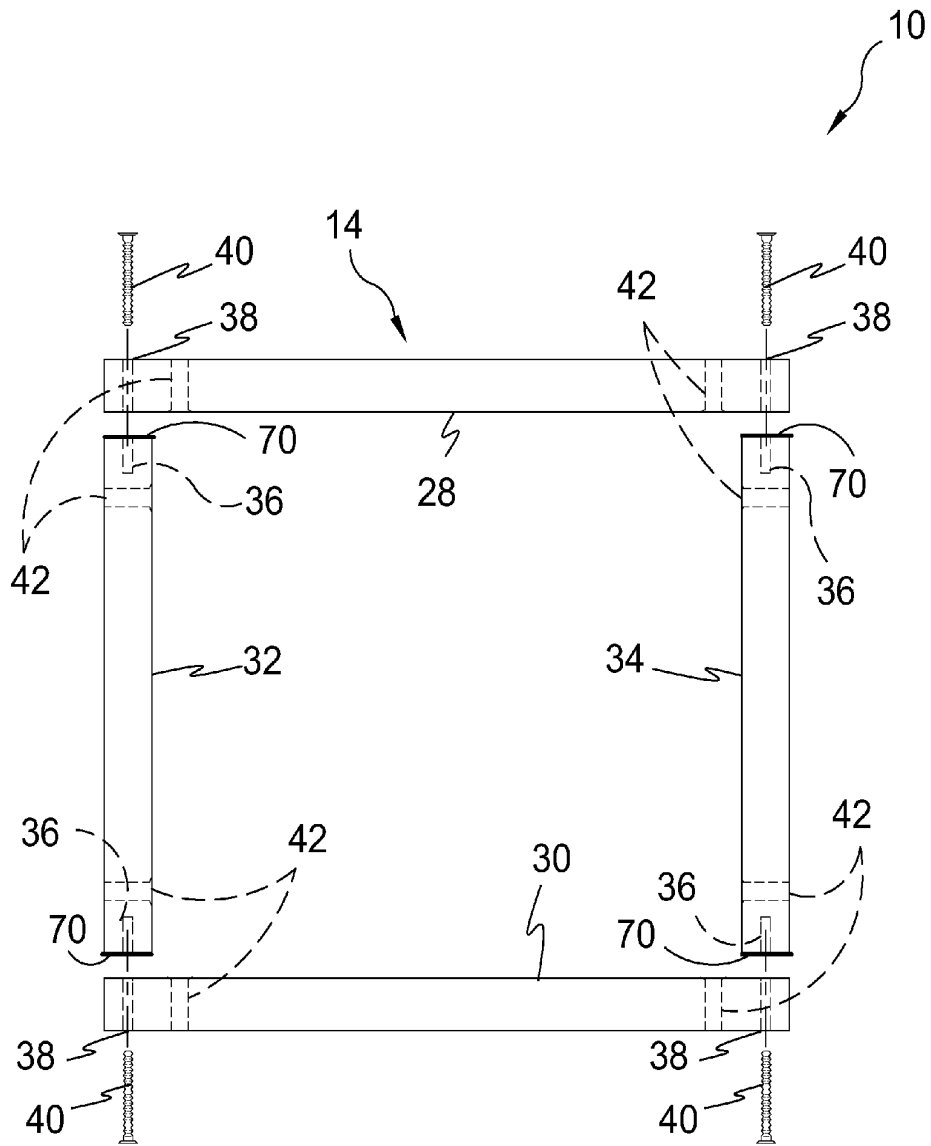


FIG. 8

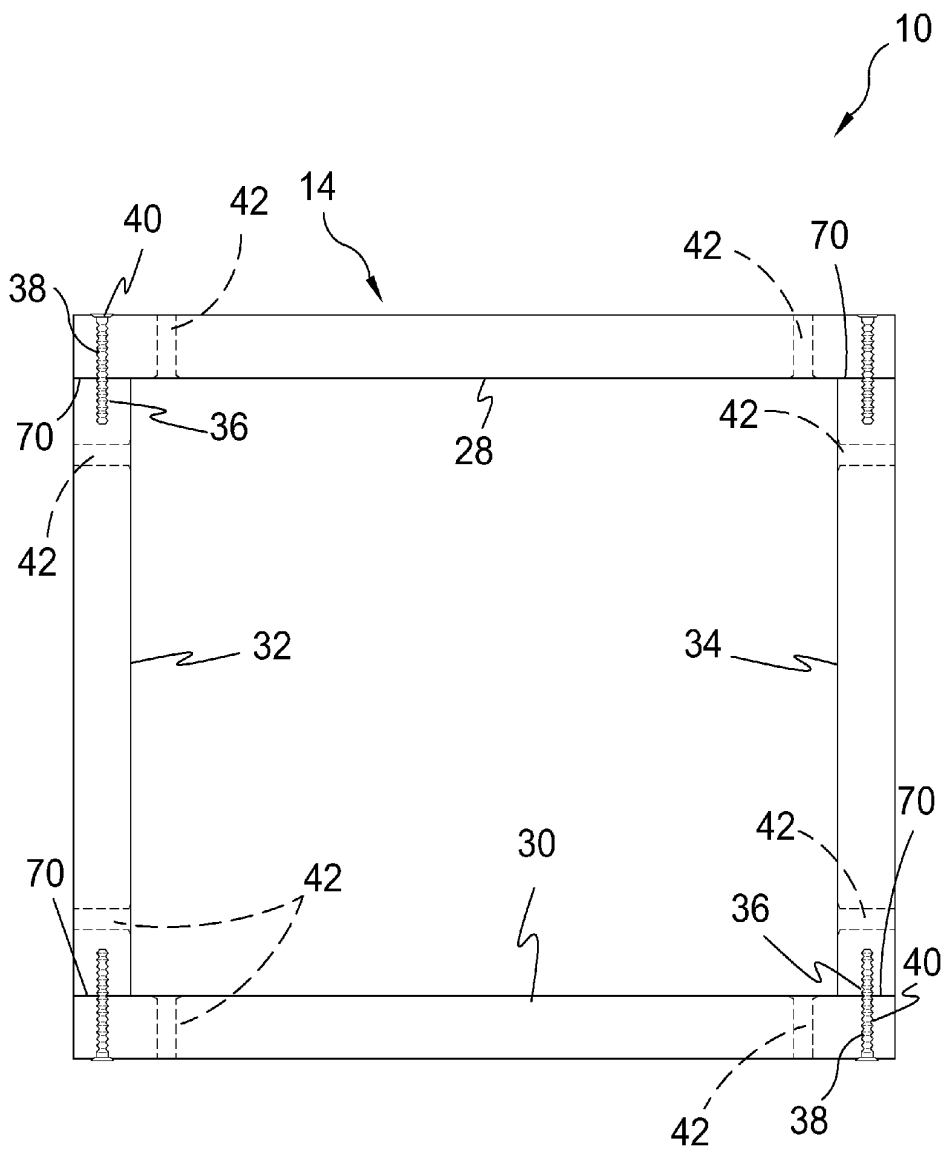


FIG. 9

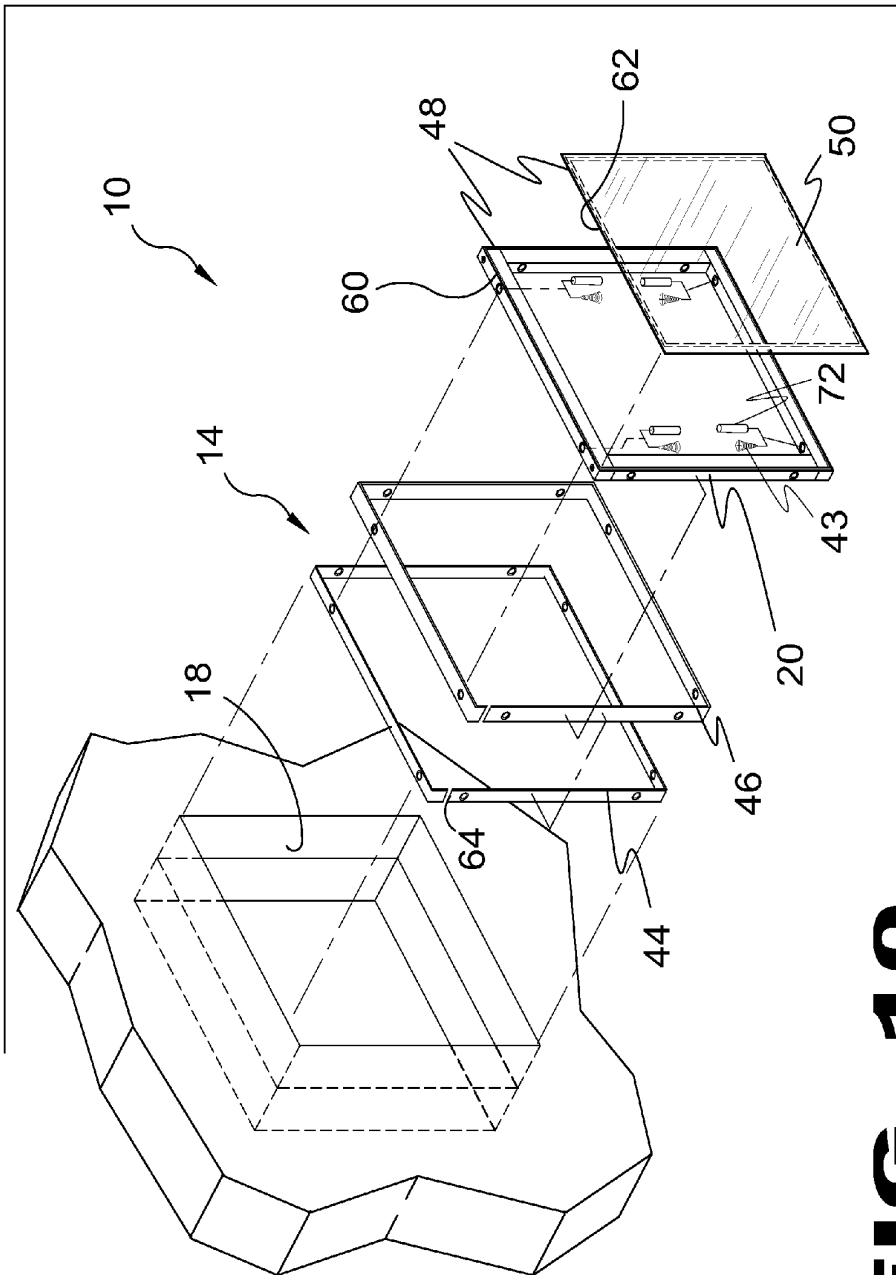


FIG. 10

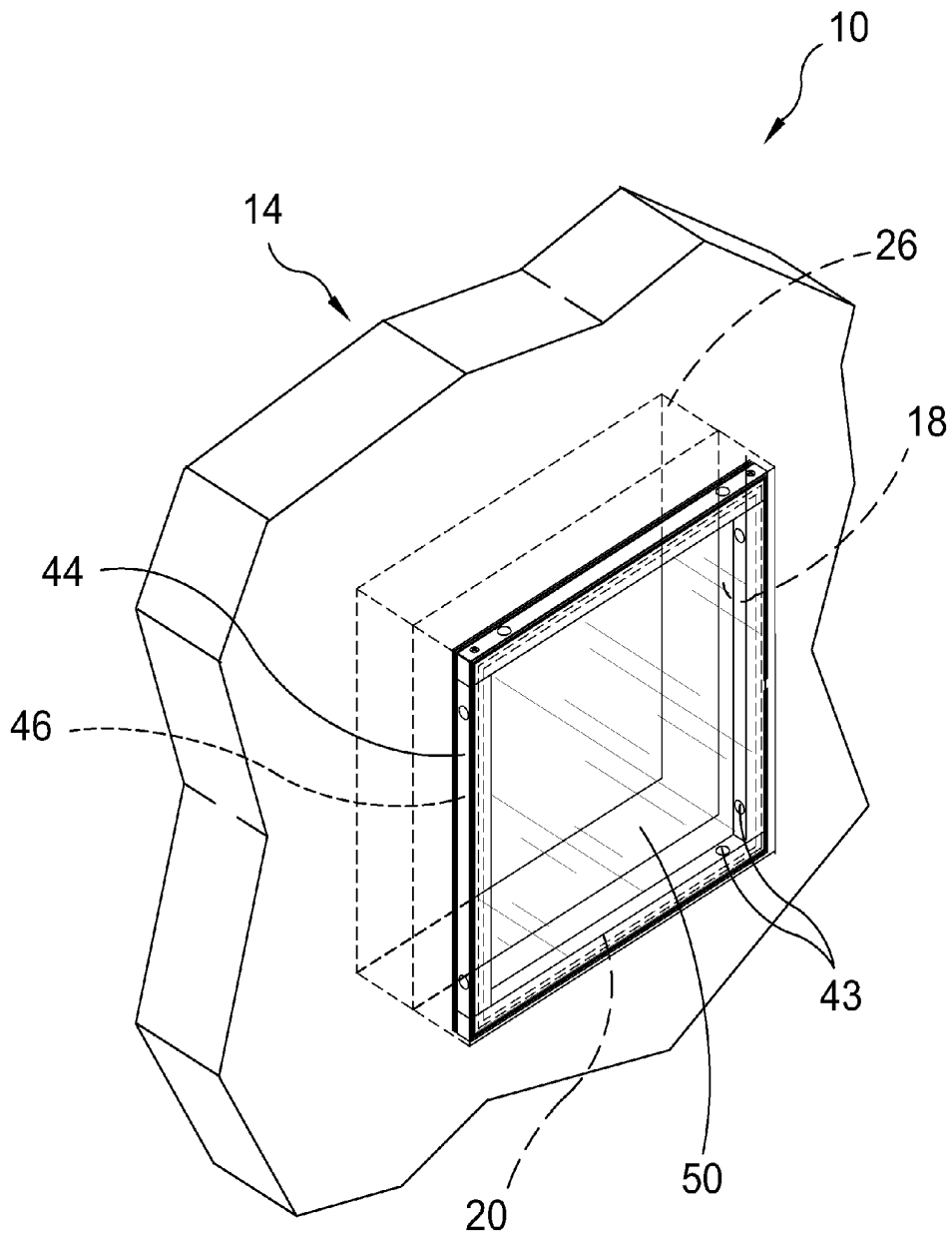


FIG. 11

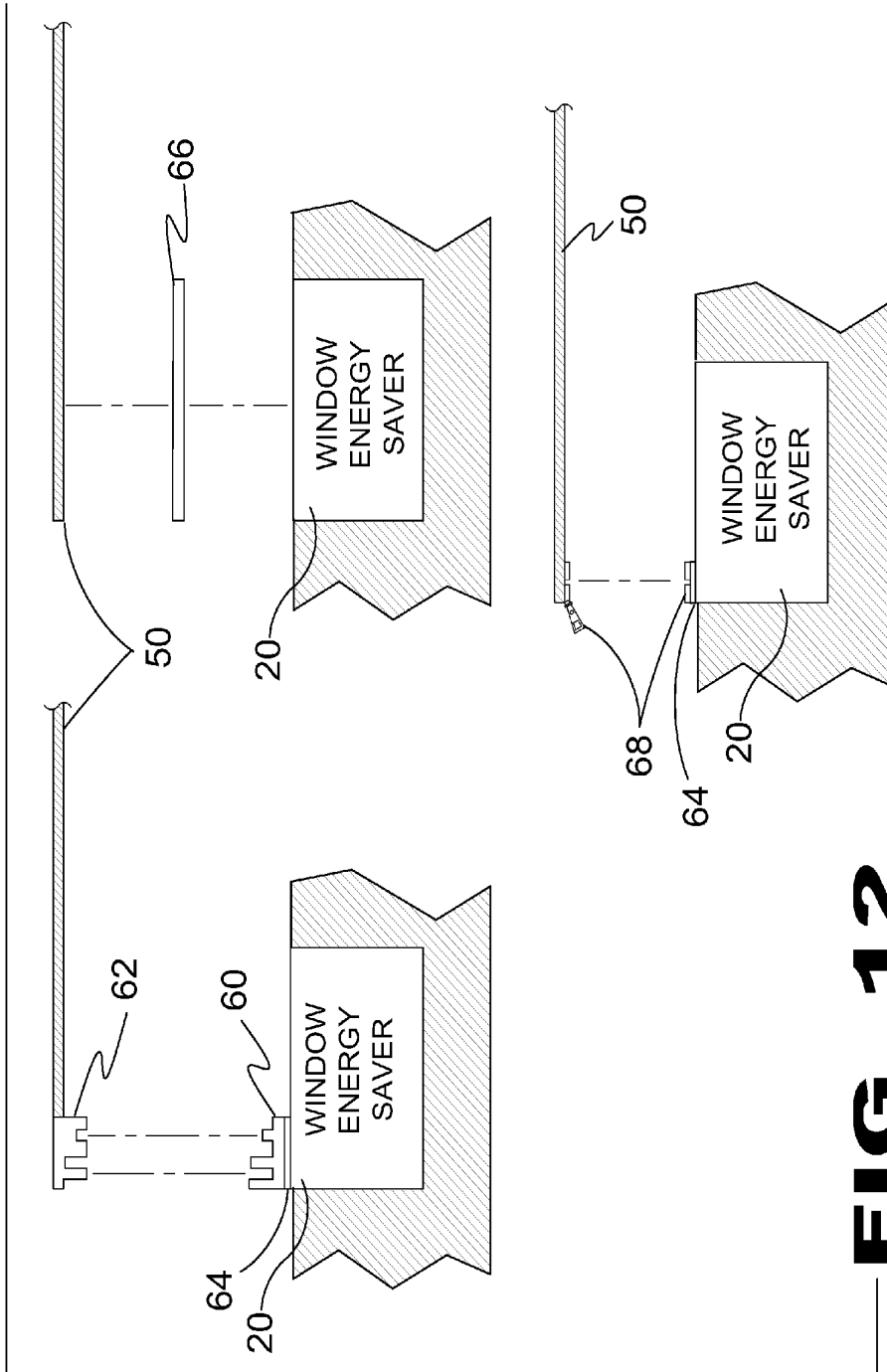


FIG. 12

**FRAMED WINDOW INSULATION HAVING A
RELEASABLE AND REATTACHABLE
FLEXIBLE IMPERMEABLE SHEET**

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates generally to windows and, more specifically, to window insulation comprising a frame having a track fixedly attached thereto and flexible impermeable sheeting, such as plastic or other material, having a rail member peripherally positioned and releasably mounted to said track member therein forming a window thermally insulative device.

The window insulation can be mounted to the wall over the window opening or mounted to the window jamb.

2. Description of the Prior Art

There are other covering devices designed for windows. Typical of these is U.S. Pat. No. 1,045,132 issued to Dorsey on Nov. 26, 1912.

Another patent was issued to Kaplan on Oct. 15, 1935 as U.S. Pat. No. 2,017,539. Yet another U.S. Pat. No. 4,103,728 was issued to Burdette on Aug. 1, 1978 and still yet another was issued on Sep. 12, 1978 to D'Aragon as U.S. Pat. No. 4,112,642.

Another patent was issued to Loeb on Feb. 10, 1981 as U.S. Pat. No. 4,249,589. Yet another U.S. Pat. No. 4,419,982 was issued to Eckels on Dec. 13, 1983. Another was issued to Roberts on Nov. 27, 1990 as U.S. Pat. No. 4,972,896 and still yet another was issued on Feb. 19, 1991 to Golden as U.S. Pat. No. 4,993,471.

Another patent was issued to Westby on Jul. 19, 2005 as U.S. Pat. No. 6,918,426 and still yet another was issued on Nov. 22, 1967 to Jaster as U.K. Patent No. GB1,092,452.

In a device of the class described, a tent wall formed of a number of vertically arranged strips of material connected by seams, a number of strips being formed with an opening, a reinforcing strip surrounding said opening, fastening members on the interior of such reinforcing strip, screens of flexible material, each provided with a flexible reinforcing frame and with coacting fastening members at its top, sides and bottom, for detachably securing the screens to the inner surface of the strips of material, whereby the operator may, by detaching the upper fastening member, obtain access to the outside flap and the fastening members above the opening on the outside, and whereby the screen, when in position, will support the wall against movement tending to stretch the sides or the top and bottom of the openings apart, the fastening members for securing the flap on the outside in its closed position, being designed to reinforce and support the wall against upward and downward stretching.

In an attachment longitudinally extendible means for supporting a ventilating or similar device arranged on the inside of a window and secured to the window frame and means for removably fastening said device to said supporting means, said supporting means being longitudinally extendible to fit different sizes of windows.

A system for mounting thin transparent membrane material over the interior of a window to provide an insulating effect. An elongate narrow retainer molding is positioned along the peripheral frame portion of the window. This molding includes a narrow base portion having a flat surface intended for adhesive and permanent attachment to the frame. Integrally formed with the base portion are two side components which extend upwardly to a top surface which is shaped concavely to define a receiving region. Detents are formed in these side portions which extend over a centrally disposed

groove. A beading of circular cross-section is urged with the peripheral portion of the membrane into the centrally disposed groove to provide a non-adhesive form of fixation of the membrane to the retainer molding. By selection of relative dimensions of the molding, the centrally disposed groove remains continuous about the entire window mounting even though the orientation of retainer molding components across corners may be transverse.

A temporary transparent insulating installation is disclosed for mounting on the inside of a window frame. This installation provides for increased insulation of buildings without necessitating an increased number of glazings in a window. The installation comprises a clear plastic sheet with a length greater than the height of the window frame, having a first connecting strip along a top edge. The sheet has side edges with sealing means adapted to seal with two side surfaces of the window frame. The second connecting strip is permanently attached to the top surface of the window frame and is adapted to mate with the first connecting strip along the top edge of the plastic sheet. At least one weight is provided to hold down the plastic sheet on the bottom surface of the window frame. In another installation two or more clear plastic sheets can be hung in a window frame.

Apparatus for mounting an environment controlling screen, sheet or membrane, is provided comprising separate frame sections secured in mutually abutting relation to the inner periphery of an opening, mutually abutting strip of Velcro hook material are affixed to each frame section, and a flexible sheet, dimensioned to fit the frame section, is affixed to the frame section by means of a strip of Velcro pile material attached to the margins of the sheet. A mosquito-proof joint is provided by the abutting Velcro material even though the frame sections are not joined directly one to the other. Quick installation and removal of the sheet material is feasible. Storage of the sheets is convenient, simple, and takes up little space.

An edge seal for a solar collector type flexible film material is provided for forming a generally air-tight heat insulating reusable seal around the edge of an opening in the surface of a building structure. The edge seal is formed around the film material which is sized to cover the window opening and overlap the edges of the opening. A band of magnetically permeable particles is adhered along the edge of the substrate forming the film material by a suitable adhesive. A strip of magnetic material is adhered around the edge of the opening. The permeable particles are attracted to the magnetic strip to form an effective air-tight seal between the flexible film material and the opening to essentially form a dead air space between the flexible material and the window opening. The flexible film material can be mounted similar to a window shade adjacent to the upper edge of the opening. The film material can also have a monolayer of transparent spheres adhered to one side which provide a means for concentrating solar energy striking the outer surface of the sheet material. The solar energy will be converted to heat energy and conducted through the sheet material to the interior surface so that the heat will be transferred to the interior of the building.

A covering apparatus is set forth to overlie an existing covered opening such as found in window and door environments. The apparatus includes a continuous elongate strip secured to a window or door frame opening with a companion strip receivable therein integrally secured and formed as a perimeter of a flexible transparent covering membrane for the window or door opening.

A self-attaching screen for vehicle openings comprising a flexible screen material having mounting means along its periphery, whereby the mounting means are resilient projec-

tions which temporarily entangle with the fabric surrounding the vehicle opening to form a detachable seal. The screen may be detached and reattached repeatedly without damage to said fabric and no secondary mounting means are required to be permanently attached to the vehicle.

The window insulating system comprises a mesh scrim sized to fit substantially completely within a window frame and substantially over all of an inside surface of a window pane and positioning and holding means for positioning and holding said mesh scrim closely adjacent the inside surface of the window pane without adhesively fixing said mesh scrim to the window pane or to the window frame with the distance between the mesh scrim and the inside surface of the window pane being between approximately 0.005 inch and approximately 0.050 inch.

A strip fastener comprises two separable strips **1**, **2** of plastics material of which one is formed with at least one longitudinally extending recess and of which the other is formed with at least one longitudinally extending rib **5** comprising a head portion and neck portion, the head being adapted to enter the recess of the other strip or one of the recesses, to interlock with it when the strips are forced together face to face and in which the or each rib or at least one of the ribs has in the outer surface of its head a longitudinally extending groove **6** dividing the head into two lobes and in which the inner surface of the recess which is opposite to the groove **6** when the rib is seated in the recess lies completely outside the groove to permit the two lobes to move freely towards each other as the head is inserted in or removed from its associated recess. In other arrangements FIGS. **2** and **3** (not shown) the head portion is rounded, FIG. **2**, and in FIG. **3** slotted head portions (**31**)-(**33**) on both strips interengage, the head portions (**31**) and (**33**) also engaging dissimilar recess wall portions (**37**) and (**38**) respectively. In a similar arrangement FIG. **4** (not shown), the head portions and complementary portions are rounded.

While these window devices may be suitable for the purposes for which they were designed, they would not be as suitable for the purposes of the present invention, as hereinafter described.

SUMMARY OF THE PRESENT INVENTION

A primary object of the present invention is to provide a window insulation device having a releasable and reattachable flexible impermeable sheet, such as plastic or other material, forming an air and vapor barrier.

Another object of the present invention is to provide a window insulation device comprising a frame that can be mounted to the wall over a window opening or mounted to the window jamb.

Yet another object of the present invention is to provide a window insulation device wherein said frame has a peripherally mounted track whereby an insulative flexible impermeable sheeting can be mounted thereto.

Still yet another object of the present invention is to provide a window insulation device having flexible impermeable sheeting with a rail peripherally mounted thereto whereby said rail is mated to said track therein forming an insulative device for a window.

Another object of the present invention is to provide a window insulation device having a roll up housing wherein said flexible impermeable sheeting is spring biased and selectively deployable from said roll up housing.

Additional objects of the present invention will appear as the description proceeds.

The present invention overcomes the shortcomings of the prior art by providing a window insulation having a frame with a track fixedly attached thereto and flexible impermeable sheeting having a rail member peripherally positioned and releasably mountable to said track member therein forming a window thermally insulative device that can be mounted to the wall over the window opening or mounted to the window jamb.

The foregoing and other objects and advantages will appear from the description to follow. In the description reference is made to the accompanying drawing, which forms a part hereof, and in which is shown by way of illustration specific embodiments in which the invention may be practiced. These embodiments will be described in sufficient detail to enable those skilled in the art to practice the invention, and it is to be understood that other embodiments may be utilized and that structural changes may be made without departing from the scope of the invention. In the accompanying drawing, like reference characters designate the same or similar parts throughout the several views.

The following detailed description is, therefore, not to be taken in a limiting sense, and the scope of the present invention is best defined by the appended claims.

BRIEF DESCRIPTION OF THE DRAWING FIGURES

In order that the invention may be more fully understood, it will now be described, by way of example, with reference to the accompanying drawing in which:

FIG. **1** is assembled views of the wall mount and window jamb mount of the present invention.

FIG. **2** is a front exploded view of the wall mountable window energy saver frame.

FIG. **3** is a front assembled view of the wall mountable window energy saver frame.

FIG. **4** is an exploded view of the wall mountable window energy saver.

FIG. **5** is an assembled view of the wall mountable window energy saver.

FIG. **6** is an assembled view of the wall mountable window energy saver.

FIG. **7** is an assembled view of the wall mountable window energy saver.

FIG. **8** is a front exploded view of the window jamb mountable window energy saver.

FIG. **9** is a front assembled view of the window jamb mountable window energy saver.

FIG. **10** is an exploded view of the window jamb mountable window energy saver.

FIG. **11** is an assembled view of the window jamb mountable window energy saver.

FIG. **12** are various means of attaching the flexible impermeable sheet insulation of the present invention to its frame.

DESCRIPTION OF THE REFERENCED NUMERALS

Turning now descriptively to the drawings, in which similar reference characters denote similar elements throughout the several views, the figures illustrate the Window Insulation Energy Saver of the present invention. With regard to the reference numerals used, the following numbering is used throughout the various drawing figures.

10 Window Insulation Energy Saver of the present invention
 12 wall mount energy saver
 14 window jamb mount energy saver
 16 wall
 18 window jamb
 20 frame
 22 building interior
 24 building exterior
 26 window unit
 28 top portion of 20
 30 bottom portion of 20
 32 left side portion of 20
 34 right side portion of 20
 36 threaded recess
 38 recess of 28, 30
 40 screw
 42 countersunk aperture
 43 mounting fasteners
 44 compressible foam-like sealant
 46 double faced adhesive gasket
 48 attachable detachable mating fasteners
 50 flexible impermeable sheeting air and vapor barrier
 52 window trim
 54 insulating air gap
 56 roller housing
 60 track
 62 rail
 64 adhesive
 66 adhesive tape
 68 zipper fastener
 70 sealer
 72 alignment pins

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The following discussion describes in detail one embodiment of the invention (and several variations of that embodiment). This discussion should not be construed, however, as limiting the invention to those particular embodiments, practitioners skilled in the art will recognize numerous other embodiments as well. For definition of the complete scope of the invention, the reader is directed to appended claims.

FIG. 1 is assembled views of the wall mount 12 and window jamb mount 14 of the present invention. The present invention is a window insulation energy saver 10 having frames 20 adapted to be mounted to the wall 16 over a window opening or mounted to the window jamb 18. The window insulation energy saver 10 is mounted in the interior 22 of the building while the window 26 faces the exterior 24.

FIG. 2 is a front exploded view of the wall mountable window energy saver frame 10 of the present invention 10. The wall mountable window insulation energy saver 12 has a frame 20 with a top portion 28, a bottom portion 30, a right side portion 34 and a left side portion 32. The top and bottom ends of the left side portion 32 and the right side portion 34 have threaded recesses 36 and the top and bottom portions have mating recesses 38 for receiving a screw 40 that threads into the threaded recesses 36 to hold the frame portions together and sealer 70 to prevent air leakage between the frame's abutting members. The frame portions all include countersunk apertures 42 running from the front to the back. Once installed the window insulation energy saver prevents air movement and reduces thermal transference between the interior room and the window unit covered by said window energy saver.

FIG. 3 is a front assembled view of the wall mountable window energy saver frame 10. The wall mountable window insulation energy saver 12 has a frame 20 with a top portion 28, a bottom portion 30, a right side portion 34 and a left side portion 32. The top and bottom ends of the left side portion 32 and the right side portion 34 have threaded recesses 36 and the top and bottom portions have mating recesses 38 for receiving a screw 40 that threads into the threaded recesses 36 to hold the frame portions together. The frame portions all include countersunk apertures 42 running from the front to the back. Once installed the window insulation energy saver prevents air movement and reduces thermal transference between the interior room and the window unit covered by said window energy saver thereby eliminating the transfer of cold exterior air and warm interior air that also prevents moisture and ice build up on the window's components thus extending the life expectancy of the window unit.

FIG. 4 is an exploded view of the wall mountable window energy saver 12 of the present invention 10. Shown is the wall mountable window insulation energy saver 12 comprising a compressible foam-like sealant 44 that is used to create an air tight seal with the wall 16. A double faced adhesive gasket 46 for mounting the frame 20 to the compressible foam-like sealant 44 and the flexible impermeable sheet air and vapor barrier 50 that is selectively attachable and detachable from the frame 20 by means of mating peripherally positioned fasteners 48 on the flexible impermeable sheet air and vapor barrier 50 and frame 20. Alignment pins 72 are provided to align the components which are then removed and mounting fasteners 43 are used to secure the frame 20 and related components to the wall 16.

FIG. 5 is an assembled view of the wall mountable window energy saver 12 of the present invention 10. Shown is the wall mountable window insulation energy saver 12 comprising a compressible foam-like sealant 44 that is used to create an air tight seal with the wall 16. A double faced adhesive gasket 46 for mounting the frame 20 to the compressible foam-like sealant 44 and the flexible impermeable sheet air and vapor barrier 50 that is selectively attachable and detachable from the frame 20 by means of mating peripherally positioned fasteners 48 on the flexible impermeable sheet air and vapor barrier 50 and frame 20. The wall mounted window insulation energy saver 12 has mounting fasteners 43 to secure it to the interior wall 16 surface to prevent air movement and water vapor movement between the interior room and the window unit 26 covered by said window energy saver.

FIG. 6 is an assembled view of the wall mountable window energy saver 12 of the present invention 10. Shown is the assembled window insulation energy saver mounted to a wall over a window opening having window trim 52 around said window jamb 18 providing an insulative air gap once installed by means of a plurality of predrilled apertures 42 and provided screws 40 for mounting the window insulation energy saver to the interior wall 16 surface to prevent air movement and water vapor movement between the interior room and the window unit covered by said window energy saver. Countersunk apertures 42 are disposed in the frame 20 to receive mounting fasteners 43 for attachment to the wall 16.

FIG. 7 is an assembled view of the wall mountable window energy saver 12 of the present invention 10. Shown is the assembled window insulation energy saver having the flexible impermeable sheet air and vapor barrier 50 extendable and retractable from a roller housing 56 and secured to the frame 20 with attachable detachable mating fasteners 48. Once extended the flexible impermeable sheet air and vapor barrier 50 provides an insulative air gap to prevent air move-

ment and water vapor movement between the interior room and the window unit **26** covered by said window energy saver.

FIG. **8** is a front exploded view of the window jamb mountable window energy saver frame **14** of the present invention **10**. The jamb mountable window insulation energy saver **14** has a frame **20** with a top portion **28**, a bottom portion **30**, a right side portion **34** and a left side portion **32**. The top and bottom ends of the left side portion **32** and the right side portion **34** have threaded recesses **36** and the top and bottom portions have mating recesses **38** for receiving a screw **40** that threads into the threaded recesses **36** to hold the frame portions together and sealer **70** to prevent air leakage between the frame's abutting members. The frame portions all include countersunk apertures **42** running from the inside to the outside. Once installed the window insulation energy saver prevents air movement and reduces thermal transference between the interior room and the window unit covered by said window energy saver.

FIG. **9** is a front assembled view of the window jamb mountable window energy saver frame **14** of the present invention **10**. The jamb mountable window insulation energy saver **14** has a frame **20** with a top portion **28**, a bottom portion **30**, a right side portion **34** and a left side portion **32**. The top and bottom ends of the left side portion **32** and the right side portion **34** have threaded recesses **36** and the top and bottom portions have mating recesses **38** for receiving a screw **40** that threads into the threaded recesses **36** to hold the frame portions together. The frame portions all include countersunk apertures **42** running from the inside to the outside.

FIG. **10** is an exploded view of the window jamb mountable window energy saver **14** of the present invention **10**. Shown is the window jamb mountable window insulation energy saver **14** comprising a compressible foam-like sealant **44** that is used to create an air tight seal with the window jamb **18**. A double faced adhesive gasket **46** for mounting the frame **20** to the compressible foam-like sealant **44** and alignment pins, as shown and described in FIG. **4**, and the flexible impermeable sheet air and vapor barrier **50** that is selectively attachable and detachable from the frame **20** by means of mating peripherally positioned fasteners **48** comprising a track **60** and a rail **62** on the flexible impermeable sheet air and vapor barrier **50** and frame **20** respectively. Alignment pins **72** are provided to align the components which are then removed and mounting fasteners **43** are used to secure the frame **20** and related components to the window jamb **18**.

FIG. **11** is an assembled view of the window jamb mountable window energy saver **14** of the present invention **10**. Shown is the frame **20** of the assembled window insulation energy saver mounted to a window jamb **18** of a window unit opening **26** providing an insulative air gap once installed by means of a plurality of predrilled apertures **42** and provided mounting fasteners **43** for mounting the window insulation energy saver to the window jamb **18** surface to prevent air movement and water vapor movement between the interior room and the window unit covered by the flexible impermeable sheet air and vapor barrier **50** of said window energy saver. The double faced adhesive gasket **46** and compressible foam-like sealant **44** form a seal between the frame **20** and the window jamb **18**.

FIG. **12** are various means of attaching the flexible impermeable sheet air and vapor barrier **50** of the present invention to its frame. Shown is a track **60** and mating rail **62** having a multiple tongue and groove configuration and secured to the frame **20** with an adhesive **64** to secure the flexible impermeable sheet air and vapor barrier **50** to the frame **20**. Other attachable detachable mating fasteners **48** include adhesive tape **66** and a zipper fastener **68**.

It will be understood that each of the elements described above, or two or more together may also find a useful application in other types of methods differing from the type described above.

While certain novel features of this invention have been shown and described and are pointed out in the annexed claims, it is not intended to be limited to the details above, since it will be understood that various omissions, modifications, substitutions and changes in the forms and details of the device illustrated and in its operation can be made by those skilled in the art without departing in any way from the spirit of the present invention.

Without further analysis, the foregoing will so fully reveal the gist of the present invention that others can, by applying current knowledge, readily adapt it for various applications without omitting features that, from the standpoint of prior art, fairly constitute essential characteristics of the generic or specific aspects of this invention.

The invention claimed is:

1. A framed window insulation device having releasable and reattachable flexible impermeable sheeting comprising:
 - a) a wall mounted frame assembly including a frame sized to surround a periphery of a window unit opening;
 - b) means for attaching said frame assembly to a window unit structure at said window opening, said frame assembly including a double faced adhesive gasket disposed on said frame assembly and oriented towards said window unit structure;
 - c) a flexible impermeable sheet having a releasable means to form a hermetically sealed flexible impermeable air and vapor barrier and thermal barrier;
 - c) releasable means for hermetically attaching said flexible impermeable sheet to said frame assembly comprising a mating interlocking track and rail disposed peripherally on said flexible impermeable sheet and said frame assembly respectively;
 - d) a compressible foam like sealant disposed between said double faced adhesive gasket and said window unit structure; and
 - e) mounting fasteners being inserted through countersunk apertures in said frame extending into said window unit structure and tightened to present a bias against said frame assembly resulting in the compression of said sealant to form a hermetic seal thereto, said countersunk apertures extending from front to rear of said frame assembly.
2. The framed window insulation device according to claim 1, wherein said frame assembly comprises:
 - a) a top frame portion having a pair of spaced apart recesses disposed proximal opposing ends thereof and a pair of spaced apart countersunk apertures;
 - b) a bottom frame portion having a pair of spaced apart recesses disposed proximal ends thereof and a pair of spaced apart countersunk apertures;
 - c) a pair of side frame portions each having a threaded recess disposed in the top and bottom ends thereof and a pair of spaced apart countersunk apertures; and
 - d) screws passing through said recesses of said top and bottom frame portions and threaded into said threaded recesses of said side frame portions to maintain the integrity and stability of said frame assembly.
3. The framed window insulation device according to claim 1, wherein said mounting fasteners are embedded in the interior wall proximal the edge of said window unit opening of said structure.

4. The framed window insulation device according to claim 1, wherein said flexible impermeable sheet is taken from the group of transparent, translucent and opaque.

5. The framed window insulation device according to claim 1, wherein said mating track and rail have an interlocking multiple tongue and groove configuration.

6. The framed window insulation device according to claim 1, whereas said releasable means for forming a hermetic seal between said flexible impermeable air and vapor barrier and said frame is adhesive tape.

7. The framed window insulation device according to claim 1, whereas said releasable means for forming a hermetic seal between said flexible impermeable air and vapor barrier and said frame is a zipper.

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