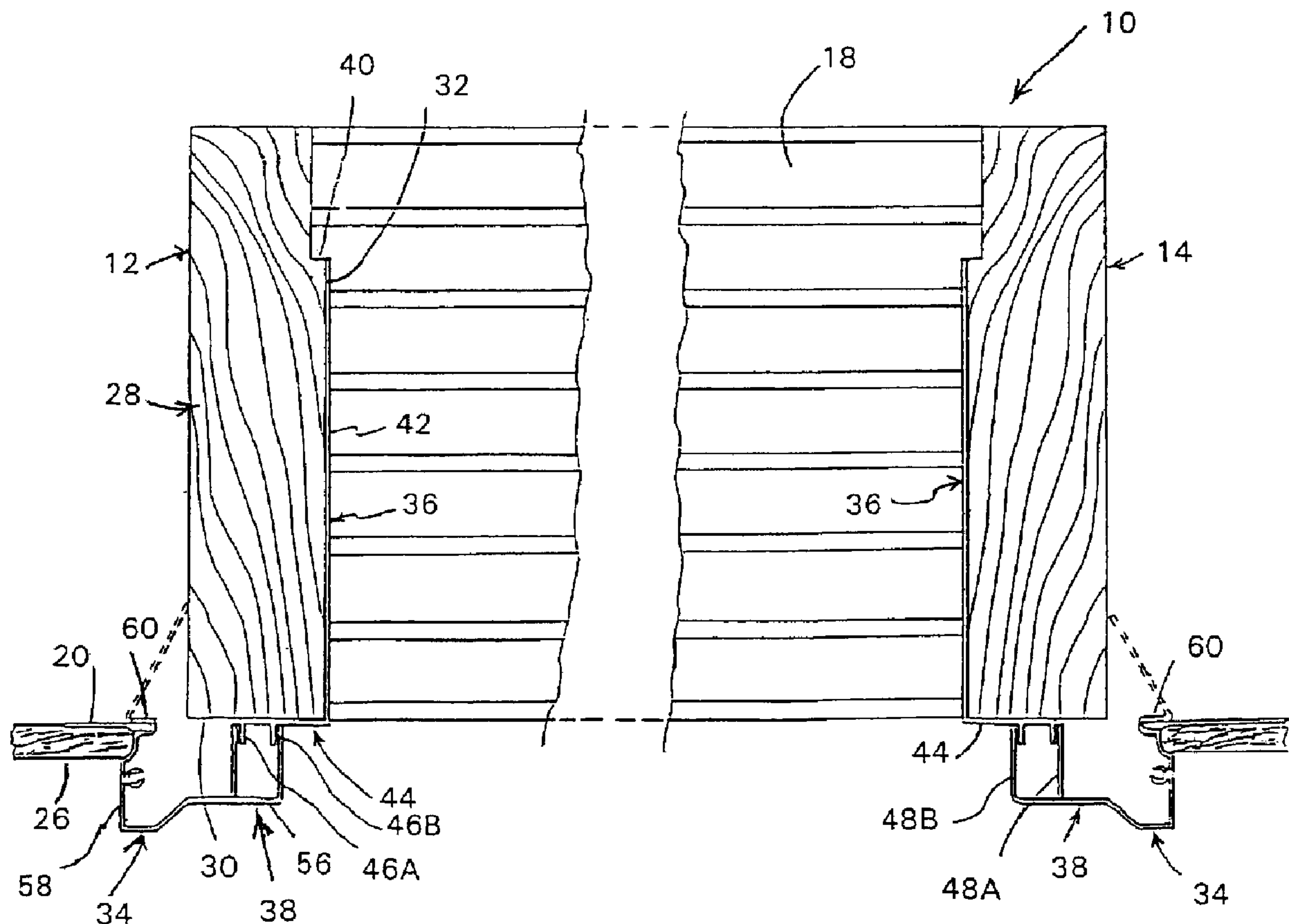




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(57) Abrégé/Abstract:

Metal cladding as jamb cover assemblies and mullion cover assemblies, for door frames and mullions, using extrusions as cladding over substrates. A jamb cover assembly includes a jamb plate, a nosing, and a nailing fin. The nailing fin extends from a distal side



(57) **Abrégé(suite)/Abstract(continued):**

of the assembly. Accordingly, the frame can be secured in a rough opening of a building with the nosing assembled to the jamb plate, and using the nailing fin for the securement, without any assembly or disassembly of the frame at the construction site. Regarding the mullion cover assembly, first and second jamb plates are on opposing sides of a mullion substrate. A mullion nosing is assembled to the jamb plates, and bridges the jamb plates to join together the two jamb plates and tire nosing, to provide complete overlayment of the outer surface of the mullion substrate and to space the front panel of the nosing from the outer surface of the substrate.

ABSTRACT

Metal cladding as jamb cover assemblies and mullion cover assemblies, for door frames and mullions, using extrusions as cladding over substrates. A jamb cover assembly includes a jamb plate, a nosing, and a nailing fin. The nailing fin extends from a distal side of the assembly. Accordingly, the frame can be secured in a rough opening of a building with the nosing assembled to the jamb plate, and using the nailing fin for the securement, without any assembly or disassembly of the frame at the construction site. Regarding the mullion cover assembly, first and second jamb plates are on opposing sides of a mullion substrate. A mullion nosing is assembled to the jamb plates, and bridges the jamb plates to join together the two jamb plates and tire nosing, to provide complete overlayment of the outer surface of the mullion substrate and to space the front panel of the nosing from the outer surface of the substrate.

COVERS FOR DOOR JAMBS AND MULLIONS

This application is a divisional of commonly-owned and co-pending Canadian Patent Application No. 2,415,545 filed January 2, 2003.

BACKGROUND

5 This invention pertains specifically to prefabricated and otherwise clad metal door frames and mullions, using extrusions as cladding over frame substrate elements.

 When installing a door frame into a door opening in a building, it is desirable to have a strong, durable frame which is either prefabricated or easily assembled on the construction site. Preferably, the frame can be assembled at an off-site manufacturing
10 location. In the alternative, it is desirable to have frame elements which are easily assembled at the construction site.

 In a typical construction project involving doors, door frames or mullions are fabricated by a frame or mullion fabricator, and shipped to a door assembler. The door assembler receives the frames and/or mullions as fabricated, and assembles e.g. the
15 frames to respective door slabs. The slabs are also commonly purchased separately, from slab manufacturers. The door assembler adds the desired glass inset, if any, to the door slab, assembles the door slab to a selected door frame, and ships the thus assembled door, including frame and slab, to the construction site for installation on the building.

20 Typically, the basic frame is wood. The door assembler can easily up-grade the quality and value of the frame, and thus the quality and value of the door assembly, by installing cladding to the left, right, and top frame substrate members, thus to provide maintenance free, tough, and durable exterior surfaces to the frame.

 In one set of known clad structures, a single extrusion is mounted to the substrate, providing covering on both the side surface of the substrate and over the outer surface
25 of the substrate. Such extrusion typically provides interface structure on opposing surfaces of the substrate, whereby each extrusion is limited to the size of substrate with which such extrusion can be used.

In the alternative, a jamb plate cover is provided along a side surface of the substrate, but does not extend over the outer surface of the substrate. A separate nosing grips the jamb plate on a first surface of the substrate and grips the opposing surface of the substrate.

5 In an improvement in versatility of the cladding, over such structures, it is known to provide a jamb plate which has a main side panel which covers the side surface of the substrate and an outer panel which extends over the outer surface of the substrate. A nosing, such as in a brick mold profile or a window trim profile, is mounted to, and extends over, the outer panel of the jamb plate. The outer edge of the outer panel is
10 coincident with the distal side of the nosing. The outer panel of the jamb plate is used to mount the cladding, and thus the door frame, to framing members of the building, by e.g. screws or other fasteners extending through the outer panel of the jamb plate. Accordingly, the nosing cannot be mounted on the jamb plate while the door frame is being mounted to the building.

15 Such configuration requires that the nosing be assembled to the jamb plate after the door frame is inserted into the rough opening and mounted to the building. By corollary, the nosing can be shipped to the construction site assembled to the jamb plates, whereupon the nosing must be disassembled from the jamb plates before the door frame can be installed on the building, and then reassembled to the door frame after
20 the door frame has been installed. While such process provides for shipping of the nosing in an assembled configuration, disassembly at the construction site is required.

In an alternative process, the door frame is shipped to the job site without the nosing assembled to the frame. The nosing is shipped separately, though typically in the same shipment. This process saves the disassembly step at the construction site.
25 However, the separate shipment of the nosing bears a risk of the nosing being mishandled, separated from the door frame, and lost, whereupon the installation job can be completed only by shipping an additional nosing to the job site. Another risk inherent in the above process is that a different style nosing will be shipped with the door frame, or that a different style nosing will be shipped as a replacement.

Thus, it is an object of the invention to provide a cladded door frame, including a jamb cover assembly on respective frame substrates, wherein the jamb cover assembly includes a jamb plate, a nosing, and a nailing fin, and wherein the nailing fin is so positioned with respect to the nosing that the door frame can be mounted and secured
5 in a rough opening of a building while the jamb cover assembly is fully assembled to the respective frame substrates.

It is another objective to provide an elongate jamb plate wherein an outer panel, which overlies the outer surface of the respective jamb substrate, and which bears mounting structure for receiving a nosing thereon, is devoid of structure, outwardly of the
10 mounting structure, for mounting the jamb plate to a framing member of a building to which the frame is to be mounted.

It is another object to provide a nosing for mounting on a jamb plate, wherein a nailing fin kerf is disposed on the nosing proximate a distal side of the nosing.

It is another object of the invention to provide, in combination, a jamb plate
15 cooperating with a nosing wherein a mounting fin kerf is disposed in a region from proximate a distal side of the nosing to proximate a mounting structure on the jamb plate mounting the nosing and the jamb plate to each other.

Yet another object is to provide a pre-assembled door frame wherein a jamb cover assembly, comprising a jamb plate and a nosing, is mounted to one or more jamb
20 substrates wherein a mounting fin extends outwardly beyond a distal side of the nosing thereby to enable mounting the jamb cover assembly to a framing member of a building while the nosing is mounted to the jamb plate.

Mullions can be up-graded in much the same manner of adding cladding to mullion substrates.

25 Accordingly, it is an object of the invention to provide a cladded mullion assembly wherein a mullion nosing is mounted to both first and second jamb plates, the jamb plates being mounted on opposing sides of the mullion substrate, and extending over the outer surface of the mullion substrate, and wherein the nosing is mounted to both of the jamb plates proximate the outer surface of the mullion substrate and thus bridges the
30 jamb plates while covering the entire outer surface of the mullion substrate.

Still another objective is to provide a method of installing a door frame in a door opening in a building, including assembling the door frame assembly at an off-site location, transporting the door frame to the building site, and installing the frame in the building, including securing the mounting fin to building framing members while a
5 respective nosing is installed on a respective jamb plate.

SUMMARY

The invention generally comprises aluminum cladding as jamb cover assemblies and mullion cover assemblies, for door frames and mullions, using extruded aluminum
10 profiles as cladding over wood frame substrate members. A respective jamb cover assembly includes a jamb plate, a nosing, and a nailing fin. The nailing fin is positioned in the cover assembly such that the nailing fin extends outwardly from a distal side of the jamb cover assembly when the nosing is assembled to the jamb plate. Accordingly, the frame can be secured in a rough opening of a building with the nosing assembled to the
15 jamb plate.

With the nailing fin extending outwardly from the fully assembled jamb cover assembly, namely with the nosing assembled to the jamb plate, the so-clad door frame can be assembled into the rough opening in the building, and secured to the building, using the nailing fin, without any assembly or disassembly of the frame or any of the
20 cover assembly elements at the construction site.

Regarding the mullion cover assembly, first and second jamb plates are positioned on opposing sides of a mullion substrate. A mullion nosing is assembled to mounting structure at the outer panels of the jamb plates, and bridging the jamb plates so as to join together the two jamb plates and the nosing, thus to provide complete overlayment of the
25 outer surface of the mullion substrate and to space the front panel of the nosing from the outer surface of the mullion substrate.

A first expression of the invention is embodied in an elongate jamb plate for mounting on an elongate jamb substrate of a door frame. The jamb plate comprises a main side panel for covering at least a major portion of a side surface of the jamb
30 substrate, along at least a major portion of a length of the jamb substrate; and an outer

panel for extending along at least a major portion of the length of the jamb substrate, and configured to extend at an angle transverse to the main side panel, and away from the main side panel and over an outer surface of the jamb substrate, the outer panel bearing mounting structure adapted to mount the outer panel to an elongate nosing. The outer
5 panel is preferably devoid of structure outwardly of the mounting structure for mounting the jamb plate to a framing member of a building to which the door frame is to be mounted.

In some embodiments, the mounting structure comprises first and second spaced legs, extending outwardly from the outer panel, and including locking structure for
10 assisting in locking the nosing to the jamb plate.

In some embodiments, the extension of the outer panel, away from the main side panel, ends proximate an outermost one of the legs.

In preferred embodiments, the jamb plate comprises an aluminum extrusion having nominal profile thicknesses of about 0.06 inch.

15 A second expression of the invention comprehends an elongate nosing for mounting to an elongate jamb plate, wherein the jamb plate is designed and configured to be mounted on an elongate jamb substrate of a door frame, wherein the jamb plate comprises a main side panel for covering at least a major portion of a side surface of the jamb substrate, along at least a major portion of a length of the jamb substrate, and
20 wherein the jamb plate further comprises an outer panel for extending along at least a major portion of the length of the jamb substrate. The outer panel is configured to extend at an angle transverse to the main side panel, and away from the main side panel and over the outer surface of the jamb substrate, the outer panel bearing a first mounting structure. In such environment, the elongate nosing comprises a second mounting
25 structure, designed and configured to cooperatively mount to the first mounting structure of the jamb plate, thereby to mount the nosing to the jamb plate. The nosing, when mounted to the jamb plate, extends away from the main side panel of the jamb plate to a distal side of the nosing, the nosing comprising a mounting fin kerf proximate the distal side of the nosing and away from the main side panel of the jamb plate.

In preferred embodiments, the nosing comprises first and second spaced legs, connected at spaced locations of the legs to a front panel of the nosing, the second mounting structure being disposed on the legs.

5 In preferred embodiments, a mounting fin, preferably a polymeric mounting fin, is disposed in the mounting fin kerf.

In highly preferred embodiments, the polymeric mounting fin is deflectable toward the main side panel of the jamb plate, and into proximity with a jamb substrate when the nosing is mounted to a jamb plate which is mounted to a jamb substrate.

10 Preferably, the nosing comprises an aluminum extrusion having nominal profile thicknesses of about 0.06 inch.

Another expression of the invention comprehends, in combination, an elongate jamb plate, and an elongate nosing for mounting to the elongate jamb plate. The elongate jamb plate comprises a main side panel for covering at least a major portion of a side surface of a jamb substrate, along at least a major portion of a length of the jamb substrate, and an outer panel extending along at least a major portion of the length of the jamb substrate, and extending at an angle transverse to the main side panel, and extending away from the main side panel and over the outer surface of the jamb substrate, the outer panel comprising a first mounting structure. The elongate nosing comprises a second mounting structure, designed and configured to cooperatively engage the first mounting structure of the jamb plate, thereby to mount the nosing and the jamb plate to each other. The nosing, when so mounted to the jamb plate, extends in a direction away from the main side panel of the jamb plate to a distal side of the nosing. The combination of the jamb plate and the nosing, when so mounted to each other, comprises a mounting fin kerf in a region from proximate the distal side of the nosing to proximate the first mounting structure.

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The mounting fin kerf can be disposed on either the nosing or the outer panel of the jamb plate.

The combination preferably includes a mounting fin in the mounting fin kerf and extending outwardly beyond the distal side of the nosing and away from the main side panel of the jamb plate.

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The first mounting structure preferably comprises first and second studs extending from the outer panel of the jamb plate.

The nosing preferably comprises first and second spaced legs, connected at spaced locations of the legs to a front panel of the nosing, the second mounting structure
5 being disposed on the legs.

Preferably, the mounting structure on the nosing can snap lock to the mounting structure on the outer panel of the jamb plate, preferably to studs on the outer panel of the jamb plate.

A mounting fin is preferably mounted in the mounting fin kerf, the mounting fin
10 preferably comprising a polymeric fin mounted in the combination of the jamb plate and the nosing at the mounting fin kerf.

The mounting fin is preferably deflectable toward the main side panel of the jamb plate, and into proximity with the jamb substrate when the elongate nosing is mounted to the jamb plate and the jamb plate is mounted to a jamb substrate.

Both the jamb plate and the nosing are preferably made from aluminum extrusions
15 having nominal profile thicknesses of about 0.06 inch.

In some embodiments, the invention comprehends a pre-assembled door frame for assembly into a building at an opening in the building. The pre-assembled door frame comprises an elongate jamb substrate having a length, an outer surface for facing
20 outwardly away from the building when the door frame is assembled to the building, and a side surface for facing across the opening whereat the door frame is assembled to such building; and a jamb cover assembly on the elongate jamb substrate. The jamb cover assembly comprises an elongate jamb plate comprising a main side panel covering at least a major portion of the side surface of the substrate, along at least a major portion
25 of the length of the substrate, and an outer panel extending along at least a major portion of the length of the substrate, and extending at an angle transverse to the main side panel, and extending away from the main side panel and over the outer surface of the jamb substrate, the outer panel comprising a first mounting structure, and an elongate nosing comprising a second mounting structure, engaged with the first mounting structure
30 on the outer panel of the jamb plate and thereby mounting the nosing and the jamb plate

to each other, the nosing extending in a direction away from the main side panel to a distal side of the nosing. The jamb cover assembly comprises a mounting fin extending outwardly beyond the distal side of the nosing and in a direction away from the main side panel of the jamb plate, the mounting fin being sized and configured thereby to enable mounting the jamb cover assembly to a framing member of the building at an outwardly-facing surface of the framing member while the nosing is mounted to the jamb plate.

The invention typically comprehends a mounting fin kerf on one of the nosing and the jamb plate, optionally proximate the distal side of the nosing, the mounting fin being received in the mounting fin kerf.

The nosing optionally comprises first and second spaced legs, connected at spaced locations of the legs to a front panel of the nosing, the mounting structure of the nosing being disposed on said legs.

Preferably the mounting structure on the nosing snap locks to the mounting structure on the outer panel of the jamb plate, preferably to studs on the outer panel of the jamb plate.

In preferred embodiments, the outer panel of the jamb plate is in surface-to-surface relationship with the outer surface of the jamb substrate.

In preferred embodiments, the mounting fin is deflectable so as to be folded against the jamb substrate.

In some embodiments, the invention comprehends a cladded mullion assembly. The mullion assembly comprises a mullion substrate having a length, first and second opposing side surfaces facing in opposing directions, generally along an outer surface of a building when the cladded mullion assembly is installed on such building, and an outer surface facing outwardly from the building when the cladded mullion assembly is installed on the building; a first elongate jamb plate comprising a first main side panel extending along at least a major portion of the first side surface of the mullion substrate, along at least a major portion of the length of the mullion substrate. The first elongate jamb plate further comprises a first outer panel extending along at least a major portion of the length of the mullion substrate, and extending at an angle transverse to the first

main side panel, and extending away from the first main side panel and over the outer surface of the mullion substrate, the first outer panel comprising a first mounting structure; a second elongate jamb plate comprising a second main side panel extending along at least a major portion of the second side surface of the mullion substrate, along
5 at least a major portion of the length of the mullion substrate, the second elongate jamb plate further comprising a second outer panel extending along at least a major portion of the length of the mullion substrate, and extending at an angle transverse to the second main side panel, and extending away from the second main side panel and over the outer surface of the mullion substrate toward the first outer panel of the first jamb plate,
10 the second outer panel comprising a second mounting structure; and an elongate nosing comprising a third mounting structure engaged with the first and second mounting structures on the first and second jamb plates and thereby mounting the nosing to the first and second jamb plates such that the nosing bridges the jamb plates, thereby locking together the combination of the nosing and the first and second jamb plates proximate
15 the outer surface of the mullion substrate.

Typically, the nosing comprises a front panel spaced from the outer panels of the first and second jamb plates.

Preferably, the jamb plates and the nosing comprise aluminum extrusions, preferably aluminum extrusions having nominal profile thicknesses of about 0.06 inch.

20 Preferably, the first and second outer panels of the respective first and second jamb plates are in surface-to-surface relationship with the outer surface of the mullion substrate.

The invention also comprehends a method of installing a door frame in a door opening in a building. The method comprises, at an off-site location, assembling the door
25 frame, comprising assembling together left, right, and top frame substrate members, each having a side surface facing inwardly of the opening in the building when installed in the building and an outer surface facing outwardly away from the building when installed in the building, thereby to make a door frame precursor having left, right, and top frame elements; installing, on the substrate members, elongate jamb plates wherein

each jamb plate comprises a main side panel covering at least a major portion of the side surface of the respective substrate member, and an outer panel extending along a major portion of the outer surface of the respective substrate member; mounting nosings on the outer panels of the jamb plates; and at at least one of the left, right, and top frame elements, assembling a mounting fin to one of the respective jamb plate and the
5 respective nosing, the mounting fin extending outwardly away from the main side surface and away from both the nosing and the jamb plate.

The method further comprises transporting the so-assembled door frame to the building site; and installing the so-assembled door frame to the building, including
10 securing the mounting fin to a building frame member while the respective nosing is installed on the respective frame plate.

In preferred embodiments, the method includes assembling a mounting fin to each of the left, right, and top frame elements such that the respective mounting fins extend outwardly, away from the main side panels of the jamb plates and generally in directions
15 consistent with the outer panels of the jamb plates when the door frame is assembled to the building.

BRIEF DESCRIPTION OF THE DRAWINGS

FIGURE 1 shows a front elevation view of a door frame of the invention.

FIGURE 2 shows an enlarged cross-section of the door frame of FIGURE 1, taken
20 at 2--2 of FIGURE 1.

FIGURE 3 shows a fragmentary cross-section of a jamb cover assembly of the invention having a medium-width nosing, and mounted on a door jamb.

FIGURE 4 shows a fragmentary cross-section of a jamb cover assembly of the invention having a brick-mold nosing, and mounted on a door jamb.

FIGURE 5 shows a mullion covered on opposing side surface by first and second
25 jamb plates of the invention, and a special mullion nosing cover of the invention mounted to the jamb plates and bridging the jamb plates, thereby to provide a unitary appearance to the face of the mullion while protecting the mullion from the outside environment.

The invention is not limited in its application to the details of construction or the arrangement of the components set forth in the following description or illustrated in the drawings. The invention is capable of other embodiments or of being practiced or carried out in other various ways. Also, it is to be understood that the terminology and
5 phraseology employed herein is for purpose of description and illustration and should not be regarded as limiting. Like reference numerals are used to indicate like components.

DESCRIPTION OF THE ILLUSTRATED EMBODIMENTS

Referring now to the drawings, FIGURES 1 and 2 show a pre-assembled door frame 10 of the invention. The door frame includes a left frame element 12, a right frame element 14, a top frame element 16, and a sill 18, as well as a nailing fin 20 mounted to each of the left, right, and top frame elements. The door frame as shown in FIGURE 1 has been inserted into a rough opening 22 in a building 24. As illustrated in FIGURES 1 and 2, a layer of sheet material 26 such as sheathing or siding has been installed over the nailing fin.

15 Referring to FIGURE 2, the left, right, and top frame elements all have substantially the same structure, so only one will be described. Framing members 27 of the building are not shown in FIGURE 2 in order to focus attention on the jamb cover assemblies of the invention. Those skilled in the art will know the typical dimensions of door framing members, and the typical locations and standard dimensions of the building
20 framing members, which are shown in FIGURES 3 and 4. Referring to the left frame element in FIGURE 2, an elongate wood jamb substrate element 28 extends the full length of the left frame element and serves as a substrate for the left frame element. Substrate 28 has a length of typical standard dimension, an outer surface 30 providing a building interface, facing outwardly away from the building, and a side surface 32 facing
25 across opening 22 in the building.

A jamb cover assembly 34 is mounted to the elongate wood substrate. The jamb cover assembly includes an elongate jamb plate 36, a nosing 38, and a respective nailing fin 20. Jamb plate 36 includes a main side panel 42 covering at least a major portion of the side surface 32 of the substrate, along at least a major portion of the length of the

substrate. In preferred embodiments, as in FIGURES 1 and 2, the main side panel covers substantially the entirety of the substrate side surface from the outer surface 30 of the substrate to the door seat 40.

5 Jamb plate 36 further includes an outer panel 44 covering at least a substantial portion, optionally a major portion, of the outer surface 30 of the substrate, along at least a major portion of the length of the substrate. In preferred embodiments, as in FIGURES 1 and 2, the outer panel extends along substantially the entire length of the substrate outer surface. As seen in FIGURE 2, the outer surface of the jamb plate is attached to main side panel 42 and extends at a perpendicular, or nearly perpendicular, angle
10 transverse to the main side panel, and extends away from the main side panel and over the outer surface of the jamb substrate. In the embodiment illustrated, the outer panel of the jamb plate is in general surface-to-surface relationship, optionally surface-to-surface contact, with the outer surface of the substrate.

Referring more particularly to FIGURES 3 and 4, the outer panel further includes
15 first mounting structure in the form of first and second studs 46A and 46B which have snap locks 48A and 48B, as locking loci, proximate the ends of the respective studs. As illustrated in FIGURES 3 and 4, cross-sections of studs 46A and 46B can be substantial mirror images of each other. Outer panel 44 extends to a distal edge 49 proximate the outermost leg 46A.

20 Nosing 38 is shown in FIGURE 2 as a cross-sectional outline commonly recognized as a "brick mold" in the building trades. Nosing 38 includes second mounting structure in the form of first and second legs 52A and 52B which have snap locks 54A, 54B on the respective legs, cooperating with snap locks 48A and 48B to mount the nosing 38 to outer panel 44 of jamb plate 36.

25 Legs 52A and 52B extend outwardly from studs 46A and 46B and away from the building and are connected at spaced locations of the legs to a front panel 56 of the nosing. Front panel 56 extends transversely of the jamb plate main panel, and follows a direction generally corresponding to the direction of extension of outer panel 44 of the jamb plate. Front panel 56 is typically displaced from the outer surface of the substrate,
30 and thus from the outer panel of the jamb plate, by a distance corresponding to a typical

thickness of brick mold or the like. Accordingly, while spacing between the outer surface of the substrate and the front panel of the jamb plate can, in some instances, be a nominal distance, the typical application of the nosing is directed toward replacing the typical e.g. brick mold type or like trim around a door frame. Thus, typical distances
5 between the outer surface of the substrate and the outer surface of the front panel are about 0.5 inch to about 1.5 inches, preferably about 0.6 inch to about 1.25 inches, even more preferably about 1 inch to about 1.13 inches.

As illustrated in FIGURES 2-4, front panel 56 can and typically does deviate to an extent from a true reproduction of the direction of extension of the front panel of the jamb
10 plate, and thus can define a non-planar surface profile, or an interrupted planar surface profile, or a partially planar surface profile, of the nosing which nonetheless extends generally along, and displaced from, the outer surface of the outer panel of the jamb plate. FIGURE 3 shows a profile generally corresponding with commonly known window trim profiles. FIGURE 4 shows the profile generally known as a brick mold profile, and
15 shows a brick 55 representatively shown located adjacent the brick mold.

As seen in FIGURES 2-4, front panel 56 extends away from legs 52A and 52B, away from main side panel 42 of the jamb plate, to a distal side 58 of the nosing. A nailing fin kerf 60 is built into either the jamb plate or the nosing. In general, the nailing fin kerf can be located in a region which extends from proximate the distal side of the
20 nosing to proximate studs 46A and 46B of the outer panel of the jamb plate. In FIGURES 2-4, the nailing fin kerf is located at distal side 58 of the nosing, nailing fin 20 being mounted in kerf 60. In the embodiments illustrated in FIGURES 2-4, nailing fin kerf 60 is located at the distal side of the nosing, whereby nailing fin 20 extends outwardly from the distal side of the combination of the nosing and the jamb plate. In the embodiments
25 shown, the nailing fin kerf is built into the distal side of the nosing. The nailing fin kerf can be located inwardly of the distal side of the nosing, more toward leg 52A. Typically, the outer panel of the jamb plate, and thus the entire jamb plate, is devoid of any nailing fin kerf. However, in some less preferred embodiments, the nailing fin kerf can be an element of the outer panel of the jamb plate, generally proximate outer stud 46A.
30 Wherever the nailing fin kerf, the nailing fin, itself, must extend outwardly of the side edge of the nosing so that the nailing fin can be secured to framing members of the building,

thereby securing the frame to the building while the nosing is assembled to the outer panel of the jamb plate.

5 A wide variety of mounting structures are contemplated for joining jamb plate 36 and nosing 38 to each other as a two-component jamb cover assembly, with optional addition of the mounting fin to the two-component jamb cover assembly, whereby locks 48A, 48B, 54A, 54B are merely exemplary of such mounting structures.

While two nosing structures are illustrated in FIGURES 2-4, the nosings illustrated are merely exemplary of a wide variety of nosing structures which can be employed in the invention.

10 As illustrated in FIGURES 3 and 4, the jamb cover assembly 34 is secured to the jamb substrate e.g. at side surface 32 by screws, nails, or like fasteners 62. The jamb cover assembly can also be secured to the jamb substrate at other locations such as at outer surface 30 of the jamb substrate (securement not shown). The nosing is mounted to the jamb plate by the mounting structures represented by locks 48A, 48B, 54A, 54B.
15 Nosing 38 is in turn secured to a building frame member 27 by screws, nails or like fasteners 62 through nailing fin 20.

By providing the jamb plate, the nosing, and the nailing fin as separate and distinct jamb cover elements, a wide variety of framing needs can be satisfied with a limited inventory of such cover elements.

20 Whereas prior art jamb cover assemblies require securing the nailing fin to the building framing member under the nosing, which requires that the nosing be assembled to the jamb plate after field installation of the frame in the rough opening at the building site; by positioning the nailing fin such that the nailing fin extends outwardly from the distal side of the jamb cover assembly in the invention, the jamb cover assembly
25 members, including the nosing, can all be mounted, directly or indirectly, to the frame substrate elements of the door frame assembly, in an off site manufacturing facility, whereby no frame assembly need be accomplished at the building site.

Accordingly, the door frame can be shipped to the building site fully assembled. The nosing need not be shipped separately, thereby obviating any risk of losing the
30 nosing in transit, or forgetting to put the nosing on the truck with the door frame. Similarly, the nosing need not be assembled to the frame at the building site.

Jamb plate 36 and nosing 38 are preferably metal extrusions, such as aluminum extrusions wherein the respective profile elements of the extrusions have profile thicknesses "T" of about 0.04 inch to about 0.07 inch, with preferred thicknesses of about 0.06 inch. A highly preferred thickness is about 0.062 inch.

5 As illustrated in FIGURES 2-4, the nailing fin includes a hinge 66 which facilitates articulating or deflecting the nailing fin downwardly toward substrate element 28 as illustrated in dashed outline in FIGURE 2 for shipping the door frame, and erecting the nailing fin as illustrated in solid outline in FIGURE 2 for attaching the door frame to a building.

10 FIGURE 5 shows the principles of the jamb cover assembly, including first and second 36 and a nosing 38, applied to a mullion substrate 68 adjacent a door opening, as a mullion cover assembly. Such mullion cover assembly can be used, for example, with the combination of a door frame and a side light, or between glass panes in a window or window cluster. As shown in FIGURE 5, first and second jamb plates 36A,
15 36B, as used in the previous embodiments as part of a door frame are positioned on opposing side surfaces of the mullion substrate. The main side surfaces of the jamb plates cover respective side surfaces of the mullion substrate.

Outer panels 44A, 44B of the respective jamb plates partially cover the outer surface of the mullion substrate 68, optionally leaving a portion of the mullion substrate
20 uncovered as shown in FIGURE 5. A special mullion nosing 70 bridges the jamb plates, and snap locks to a respective snap lock structure 48A, 48B on each of the jamb plates, thereby locking together the combination of the mullion nosing and the two jamb plates.

The mullion nosing extends outwardly from the outer panels and locking studs of the jamb plates, preferably a distance "D" consistent with the distance "D" on the nosings
25 of corresponding door jamb cover assemblies, such that the distance "D" of extension of the nosing from the jamb plates, at the mullion cover, is the same distance "D" of extension of the nosings from the jamb plates at the door frames, whereby the nosings will present a common depth appearance about the entirety of the door area.

Mullion nosing 70 is merely a further illustration of the wide variety of nosing
30 structures which can be attached to jamb plates 36. The width "W" of the mullion nosing can be selected according to the width of the mullion substrate to which the mullion cover

assembly is to be assembled, in combination with the dimensions of the jamb plates with which the mullion nosing is to be used. The width "W", of any of the nosings 38 used with jamb cover assemblies 34, can be selected based on a variety of considerations including, without limitation, aesthetic appeal, and availability of a building framing member to receive nailing fin 20 beyond the distal side of the nosing.

The jamb and mullion cover assemblies of this invention are well suited to provide protective covering for e.g. wood, plastic, or other substrates useful in fabricating door frames, mullions, and the like. Thus, in typical application, the frame or mullion is fabricated by a frame or mullion fabricator, and shipped to a door assembler. The door assembler receives the frame as fabricated, and assembles the frames to door slabs, which are also commonly purchased separately. The door assembler adds the desired glass inset, if any, to the door slab, as needed, and assembles the door slab to a selected door frame. Typically, the basic frame is wood.

The door assembler can easily up-grade the quality and value of the door and frame by installing jamb cover assemblies of the invention to the left, right, and top frame substrate members, thus to provide a maintenance free, tough, and durable exterior surface to the frame. Mullions can be up-graded in the same manner. The thus up-graded frame and/or mullion is shipped to the builder at the building site. The builder installs the frame, with or without the door slab, in the respective rough opening in the building. If the door slab is not installed with the frame, the door slab can be installed at another time.

By designing and configuring the jamb cover assemblies of the invention with the nailing fin extending outwardly from the nosing, the on-site installation to the building can be done without removing the nosing from the jamb cover assembly. By corollary, the jamb cover assembly can be installed without the need to install the nosing to the jamb plate at the building site. Since all such assembly can be accomplished at the off-site manufacturing facility, relatively tighter tolerances can be used, assembly errors can be better controlled, and assembly damage can be better controlled or reduced, as compared to on-site assembly operations. Thus, where cover assemblies of the invention are used in constructing new buildings, the invention provides improved quality control to the process of installing door frames and mullions in the buildings.

Overall, the cover assemblies of the invention produce frames which are known as "cladded" products. Namely, typical frame materials are "cladded" with the cover assemblies of the invention in order to up-grade the value of the resulting product.

5 In an alternative use of jamb cover assemblies and mullion cover assemblies of the invention, the cover assemblies are installed to the jamb substrates or the mullion substrates at the building site. Such on-site installation can be used e.g. where no local door assembler provides the cladding service. In addition, such on-site installation of the cladding elements can be used to up-grade an existing building, or an existing door frame and/or mullion in an existing building. In such case, the cladding elements, namely the
10 jamb plates and nosings, are installed on the jamb and/or mullion at the building site as add-on components of the respective frame or mullion. In the instance of the existing building, use of the nailing fin is obviated.

It should be noted that, while the above embodiments, such as at FIGURE 1, have suggested use of the invention with personnel doors, the invention can be used with
15 doors of practically any size. Thus, the inventor contemplates use of the invention on, for example and without limitation, garage doors, doors at truck shipping docks, and double personnel doors.

Those skilled in the art will now see that certain modifications can be made to the apparatus and methods herein disclosed with respect to the illustrated embodiments,
20 without departing from the spirit of the instant invention. And while the invention has been described above with respect to the preferred embodiments, it will be understood that the invention is adapted to numerous rearrangements, modifications, and alterations, and all such arrangements, modifications, and alterations are intended to be within the scope of the appended claims.

25 To the extent the following claims use means plus function language, it is not meant to include there, or in the instant specification, anything not structurally equivalent to what is shown in the embodiments disclosed in the specification.

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. A jamb cover combination, comprising an elongate jamb plate, and an elongate nosing,

said jamb plate comprising

- (a) a jamb plate having a length, and comprising a main side panel, and
- (b) an outer panel extending, from a locus of joinder with said main side panel, at an angle transverse to said main side panel, to a distal end of said outer panel,
- (c) an elongate nosing having a proximal side and a distal side (58), said nosing extending from the proximal side to the distal side as a single-piece unitary structure, said nosing being adapted and configured to extend along a substantial portion of the length of said jamb plate,

said nosing and said jamb plate collectively comprising mounting structure whereby said jamb plate and said nosing are mountable to each other, said nosing, when so mounted to said jamb plate, extending in a direction away from said main side panel of said jamb plate and along the outer surface of such jamb substrate, to a distal side of said nosing, and wherein said nosing extends beyond the distal end of said outer panel, such that the distal end of the outer panel is disposed between said main side panel and the distal side of said nosing,

a mounting fin kerf being defined in one of said jamb plate and said nosing, in a region which extends from proximate the distal side of said nosing to the distal end of said outer panel.

2. A combination as in Claim 1, said nosing and said jamb plate being mounted to each other, further comprising a mounting fin, as a separate and distinct element, in said mounting fin kerf, said mounting fin extending beyond the distal side of said nosing.

3. A combination as in Claim 1, said mounting fin being deflectable, from a mounting position extending generally parallel to said outer panel, a substantial distance toward said main side panel of said jamb plate, said mounting fin being deflectable toward said main side panel of said jamb plate, and into proximity with said jamb plate, or such jamb substrate when said jamb plate is mounted to such jamb substrate.

4. A nosing assembly combination, comprising a nosing extrusion member and a mounting fin extrusion member, said nosing member and said mounting fin member, when finished to fit a first door size, being adapted and configured to be assembled to each other, thereby to form an elongate nosing assembly, such nosing assembly being designed and configured to be mounted to an elongate jamb plate corresponding to such first door size, wherein such elongate jamb plate is designed and configured to be mounted on an elongate jamb substrate of a door frame, wherein such elongate jamb plate comprises a main side panel, and at least one outer panel, such at least one outer panel being configured to extend at an angle transverse to such main side panel, and away from such main side panel, a given one such outer panel bearing a first mounting structure having first and second locks (48A, 48B),

(a) said nosing comprising second mounting structure having third and fourth locks (54A, 54B), designed and configured to cooperatively mount to such first mounting structure of such jamb plate, thereby to mount said nosing to such jamb plate; and

(b) said mounting fin being designed and configured to be mounted to said nosing, and wherein said mounting fin, when mounted to said nosing, is adapted to be articulated toward such main side panel of such jamb plate, to a substantial degree when said nosing, with said mounting fin mounted thereto, is mounted to a such jamb plate,

said nosing assembly, when so assembled from said nosing member and said mounting fin, being a two-component assembly comprising said nosing, as a single-piece nosing, and said mounting fin.

5. A combination as in Claim 4 wherein said mounting fin, when mounted to said nosing, is adapted to be articulated toward such main side panel of such jamb plate, and into proximity with a jamb substrate when said nosing, with said mounting fin mounted thereto, is mounted to a such jamb plate which is mounted to a such jamb substrate.

6. A nosing assembly combination as in Claim 4 wherein said nosing comprises an aluminum extrusion having nominal profile thicknesses of about 0.06 inch.

7. A jamb cover assembly combination comprising an elongated jamb plate extrusion member and an elongate nosing extrusion member, (i) said jamb plate extrusion member, when finished to a first length, and (ii) said elongate nosing extrusion member, when finished to a second length which cooperates with the first length, being collectively adapted and configured to be assembled into a jamb cover assembly,

said jamb plate member comprising a 2-panel jamb plate member having

(a) a main side panel, and

(b) an outer panel extending from a locus of joinder with said main side panel, at an angle transverse to said main side panel, to a distal end of said outer panel,

said elongate nosing member being designed and configured to extend along a substantial portion of such first length of said jamb plate member, said elongate nosing member having a proximal side and extending, as a single-piece unitary structure, from the proximal side to a distal side (58) of said nosing member,

said jamb plate member and said nosing member collectively comprising mounting structure whereby said jamb plate member and said nosing member are adapted and configured to be mounted to each other through such mounting structure which communicates with said outer panel of said jamb plate member,

further comprising,

a mounting fin kerf in said nosing member, said mounting fin kerf, when said nosing member is mounted to said jamb plate member at said outer panel, being located outwardly of the distal end of said outer panel, such that the distal end of said outer panel

is disposed generally between said mounting fin kerf and said main side panel, said mounting fin kerf defining an opening configured to receive a mounting fin thereinto.

8. A jamb cover assembly combination as in Claim 7, further comprising a mounting fin member, said mounting fin member being designed and configured to be mounted in said mounting fin kerf.

9. A jamb cover assembly combination as in Claim 7 wherein said nosing member comprises a brick mold nosing member which is defined, along the second length, by a generally constant cross-section.

10. A jamb cover assembly combination as in Claim 8 wherein said nosing member comprises a brick mold nosing member which is defined, along the second length, by a unitary cross-section.

11. A jamb cover assembly as in Claim 7 wherein said nosing member and said jamb plate member comprise aluminum extrusions.

12. A door frame having a left frame element, a right frame element, and a top frame element, said left frame element, said right frame element, and said top frame element being assembled from a jamb cover assembly combination as in Claim 7.

13. A nosing assembly combination as in Claim 4 wherein said nosing member, when assembled to said mounting fin member, extends outwardly, away from such main side panel of said jamb plate, in a direction comprising substantially an extension of such outer panel of such jamb plate, and beyond the distal end of such outer panel.

14. A jamb cover assembly combination comprising an elongated jamb plate extrusion member and an elongate nosing extrusion member, (i) said jamb plate extrusion

member, when finished to a first length, and (ii) said elongate nosing extrusion member, when finished to a second length which cooperates with the first length, being collectively adapted and configured to be assembled into a jamb cover assembly, such jamb cover assembly being adapted and configured to define at least a portion of a door frame, such door frame at least in part defining a doorway opening,

said jamb plate member comprising

(a) a main side panel, and

(b) an outer panel extending from a locus of joinder with said main side panel, at an angle transverse to said main side panel, to a distal end of said outer panel,

said elongate nosing member being designed and configured to extend along a substantial portion of such first length of said jamb plate member,

said jamb plate member and said nosing member collectively comprising mounting structure whereby said jamb plate member and said nosing member are adapted and configured to be mounted to each other through such mounting structure which communicates with said outer panel of said jamb plate member, such that said nosing member overlies at least a portion of said outer panel and does not overlie said main side panel,

said elongate nosing member having a proximal side, and extending as a single unitary structure from the proximal side to a distal side (58) of said elongate nosing member, and wherein, when said elongate jamb plate member and said elongate nosing member are assembled to each other and at least in part define a portion of such door frame, and such door frame at least in part defines a portion of such doorway opening, the distal side of said nosing faces away from such doorway opening and is disposed beyond the distal end of said outer panel of said jamb plate member, such that the distal end of said outer panel is disposed between the distal side of said elongate nosing member and said main side panel of said elongate jamb plate member.

15. A combination as in Claim 14, further comprising a mounting fin kerf in said elongate nosing member, and a mounting fin member adapted and configured to be

mounted in said mounting fin kerf, wherein said mounting fin member is designed and configured, and said mounting fin kerf is so located, that, when said mounting fin member is mounted in said mounting fin kerf, and said nosing member and said jamb plate member are mounted to each other, and when said jamb plate member is mounted to a jamb substrate, said mounting fin member is capable of being articulated toward said main side panel and into proximity with such jamb substrate.

16. A combination as in Claim 14 wherein said nosing member and said jamb plate member comprise aluminum extrusions.

17. A door frame comprising a left frame element, a right frame element, and a top frame element, said left frame element, said right frame element, and said top frame element being assembled from combinations as in Claim 14.

18. In combination, an elongate jamb plate member, an elongate nosing member, and an elongate mounting fin member, said jamb plate member, when finished to a first length, being designed and configured to be mounted on an elongate jamb substrate of a door frame,

(a) said elongate jamb plate member comprising a main side panel, and a first outer panel extending at an angle transverse to said main side panel, and away from said main side panel, said elongate jamb plate member further comprising a first mounting structure comprising first and second locks, said first and second locks being connected to said outer panel, and extending away from said outer panel, in a common direction,

(b) said elongate nosing member comprising second mounting structure, designed and configured to cooperatively mount to said first mounting structure, thereby to mount said nosing member, when finished to a second length which cooperates with the first length, to said jamb plate member,

(c) said mounting fin member, when finished to a third length, which

cooperates with the second length, being adapted to be mounted to said nosing member to thereby form a nosing assembly, said finished mounting fin member, when mounted to said finished nosing member, and interfacing with a building to mount said mounting fin member thereto, extending generally parallel to said outer panel, said mounting fin member being deflectable, from a mounting position extending generally parallel to said outer panel, toward said main side panel of said jamb plate by about 90 degrees or more,

said nosing member having a proximal side and extending, as a single-piece unitary structure, from the proximal side of the nosing to a distal side (58) of the nosing.

19. A jamb cover assembly combination, comprising:

(a) an elongate jamb plate member, when finished to a first length, being adapted and configured to interface with a doorway substrate, and comprising a main side panel, and

an outer panel extending from a locus of joinder with said main side panel, said elongate jamb plate member comprising first mounting structure extending from said outer panel,

(b) an elongate nosing member comprising a front panel (56), and second mounting structure, comprising at least first and second legs, said elongate nosing member, when finished to a second length which cooperates with the first length, being adapted to mount, by said second mounting structure, to said jamb plate member, said outer panel, when said jamb cover is mounted in an opening in a building, being disposed between at least one of said legs and such substrate, and

(c) as a separate and distinct element, a mounting fin member which, when finished to a third length, which cooperates with the second length, is adapted to be mounted to said nosing, said mounting fin being deflectable, from a mounting position extending generally parallel to said outer panel, toward said main side panel of said jamb plate, by about 90 degrees or more,

said elongate nosing having a proximal side and extending, as a single-piece unitary structure, from the proximal side to a distal side (58) of said elongate nosing.

20. A jamb cover assembly combination comprising an elongate jamb plate extrusion member, an elongate nosing extrusion member, and an elongate mounting fin extrusion member, said jamb plate member, said nosing member, and said mounting fin member, when finished to cooperating lengths, being adapted and configured to be assembled into a jamb cover assembly, such jamb cover assembly being adapted and configured to be mounted to a substrate to thereby define a door frame member, a plurality of such door frame members being adapted and configured to, at least in part, define a door frame, such door frame, at least in part, generally defining a doorway opening, such door frame being adapted to be mounted in an opening in a building, such door frame generally having a main surface facing across such doorway opening, and a first outer surface facing away from such building, said jamb cover assembly comprising:

- (a) said elongate jamb plate extrusion member comprising
 - (i) a main side panel,
 - (ii) an outer panel extending from a locus of joinder with said main side panel, and
 - (iii) first mounting structure, comprising first and second locks on said outer panel, said first and second locks being proximate a common face of such substrate;
- (b) said nosing extrusion member comprising second mounting structure, adapted to cooperatively mount to said first mounting structure, thereby to mount said nosing extrusion member to said jamb plate extrusion member; and
- (c) said mounting fin member being adapted to be mounted to said nosing member, said mounting fin member, when mounted to said nosing member, being deflectable toward said main side panel of said jamb plate member by about 90 degrees or more.

21. A combination as in Claim 18 wherein said jamb plate member and said nosing member comprise aluminum extrusions.
22. A combination as in Claim 19 wherein said jamb plate member and said nosing member comprise aluminum extrusions.
23. A combination as in Claim 20 wherein said jamb plate member and said nosing member comprise aluminum extrusions.
24. A door frame assembly combination, adapted and configured to be assembled into a door frame assembly, said door frame assembly combination comprising an elongate first frame member and an elongate nosing member,
said first frame member consisting of a single unitary structure, said first frame member having
- (a) a main side panel on a first side of said first frame member, and
 - (b) an outer panel on a second side of said first frame member, and extending from a locus of joinder with said main side panel, at an angle transverse to said main side panel, to a distal end of said outer panel,
- said elongate nosing member, when said first frame member is finished to a first length and said nosing member is finished to a cooperating second length, extending along a substantial portion of the first length of said first frame member, said elongate nosing member having a proximal side and extending, as a single-piece unitary structure from the proximal side to a distal side (58) of said nosing member,
- said first frame member and said nosing member collectively comprising mounting structure whereby said first frame member and said nosing member are adapted and configured to be mounted to each other through mounting structure which communicates with said outer panel portion of said first frame member, thereby to assemble a frame assembly, a plurality of such frame assemblies being adapted and configured to be assembled into a door frame, which door frame defines a doorway opening extending

through such door frame,

further comprising,

a mounting fin kerf in said nosing member, said mounting fin kerf, when said first frame member and said nosing member are mounted to each other, being located outwardly of the distal end of said outer panel, such that the distal end of said outer panel is disposed generally between said mounting fin kerf and said main side panel.

25. A frame assembly combination as in Claim 24, said mounting fin kerf defining an opening, the opening being configured to receive a mounting fin thereinto, further comprising a mounting fin in said mounting fin kerf, and wherein said mounting fin is adapted to be articulated toward the second side of said first frame member.

26. A frame assembly combination as in Claim 24, said mounting fin kerf defining an opening, the opening being configured to receive a mounting fin thereinto, further comprising a mounting fin in said mounting fin kerf, said mounting fin being deflectable, from a mounting position extending generally parallel to said third side, toward said second side by about 90 degrees or more.

27. A frame assembly combination as in Claim 24, said first frame member further comprising a third side, which third side faces away from such doorway opening and in a direction generally opposite the first side, said mounting fin kerf defining an opening, the opening being configured to receive a mounting fin thereinto, further comprising a mounting fin in said mounting fin kerf, said first frame member extending along a generally continuous path between the third side and the first side.

28. A frame assembly as in Claim 24 wherein said first frame member and said nosing comprise aluminum extrusions.

29. An elongate nosing assembly for use as part of a door frame, wherein such door frame comprises a frame member, said frame member having a first side panel, and a second outer panel, such second outer panel being configured to extend at an angle transverse to such first side panel, and away from such first side panel, such outer panel bearing a first mounting structure having first and second locks (48A, 48B), said elongate nosing assembly comprising

(a) a nosing comprising second mounting structure having third and fourth locks (54A, 54B), designed and configured to cooperatively mount to such first mounting structure of such frame member, thereby to mount said nosing to such frame member; and

(b) a mounting fin mounted to said nosing, and wherein said mounting fin is adapted to be articulated toward such first side panel of such frame member, and into proximity with a such frame member when said elongate nosing assembly is mounted to a such frame member,

said elongate nosing having a proximal side and extending, as a single-piece unitary structure from the proximal side to a distal side (58) of said elongate nosing.

30. An elongate nosing as in Claim 29 wherein said elongate nosing comprises an aluminum extrusion having nominal profile thicknesses of about 0.06 inch.

31. A door frame assembly comprising an elongate jamb having a first length and an elongate nosing having a second length, and joined to said jamb,

said jamb having

(a) a main side panel, and

(b) an outer panel extending from a locus of joinder with said main side panel, at an angle transverse to said main side panel, to a distal end of said outer panel,

said elongate nosing having a proximal side and extending, as a single unitary structure, from the proximal side to a distal side (58) of said elongate nosing, said elongate nosing being mounted to said jamb,

further comprising

a mounting fin kerf in said nosing, located outwardly of the distal end of said outer panel, such that the distal end of said outer panel is disposed generally between said mounting fin kerf and said main side panel, said mounting fin kerf defining an opening, configured to receive a mounting fin thereinto.

32. A door frame assembly as in Claim 31, further comprising a mounting fin in said mounting fin kerf, said elongate nosing having a proximal side and extending, as a single piece unitary structure, from the proximal side to a distal side (58) of said nosing, and wherein said nosing comprises a brick mold nosing which is defined, along the second length, by a generally constant cross-section.

33. A door frame assembly as in Claim 32 wherein said mounting fin is adapted to be articulated toward said main side panel and into proximity with said jamb.

34. A door frame assembly as in Claim 31 wherein said jamb and said nosing comprise aluminum extrusions.

35. A door frame assembly having a left frame element, a right frame element, and a top frame element, each of said left frame element, said right frame element, and said top frame element comprising a jamb and a nosing as in Claim 31.

36. A nosing assembly as in Claim 29 wherein said nosing, when mounted to such frame member, extends outwardly, away from such first side panel, in a direction comprising substantially an extension of such second outer panel, and beyond such distal end of such second outer panel.

37. A door frame structure, adapted and configured to define at least a portion of a door frame, said door frame structure comprising an elongate jamb having a first length

and an elongate nosing having a second length, and joined to said jamb, said door frame structure, when in an assembly as at least a portion of a door frame, at least in part defining a doorway opening,

said jamb comprising

(a) a main side panel, and

(b) an outer panel extending, from a locus of joinder with said main side panel, at an angle transverse to said main side panel, to a distal end of said outer panel,

said elongate nosing being designed and configured to extend along a substantial portion of such first length of said jamb,

said jamb and said nosing collectively comprising mounting structure whereby said jamb and said nosing are mounted to each other through such mounting structure which communicates with said outer panel of said jamb, and wherein said nosing overlies at least a portion of said outer panel and does not overlie said main side panel,

said elongate nosing having a proximal side and extending, as a single unitary structure, from the proximal side to a distal side (58) of said elongate nosing, said elongate nosing and said elongate jamb being mounted to each other and at least in part defining a portion of said door frame structure, the distal side of said nosing facing away from the doorway opening and being disposed beyond the distal end of said outer panel of said jamb, such that the distal end of said outer panel is disposed between the distal side of said elongate nosing and said main side panel of said elongate jamb.

38. A door frame structure as in Claim 37, further comprising a mounting fin kerf in said elongate nosing, and a mounting fin mounted in said mounting fin kerf, wherein said mounting fin is designed and configured such that said mounting fin is capable of being articulated toward said main side panel by at least 90 degrees or more.

39. A door frame structure as in Claim 37 wherein said jamb and said nosing comprise aluminum extrusions.

40. A door frame, comprising a left frame element, a right frame element, and a top frame element, each comprising a door frame structure as in Claim 37.

41. A method of upgrading an existing door frame which defines a doorway opening, such existing door frame comprising a main jamb surface which faces into the doorway opening, a first outer jamb surface which faces a first direction away from the doorway opening, and a second outer jamb surface which faces a second opposing direction away from the doorway opening, the method comprising installing extruded aluminum cladding elements over the main surface and over one of the first and second outer jamb surfaces, the extruded aluminum cladding elements which are installed on a given such jamb element, as part of the up-grading, comprising an elongate extruded aluminum jamb plate having a first length, and an elongate extruded aluminum nosing mounted to the extruded aluminum jamb plate,

the jamb plate, which is installed on a given such jamb element, having

(a) a main side panel, and

(b) an outer panel extending from a locus of joinder with the main side panel, at an angle transverse to the main side panel, to a distal end of said outer panel,

the elongate nosing, which is installed on the given jamb plate, having a proximal side and extending, as a single unitary structure, from the proximal side to a distal side (58) of said elongate nosing,

the jamb plate and the nosing being mounted to each other through mounting structure which communicates with the outer panel of the jamb plate adjacent only one of the first and second outer jamb surfaces,

further comprising

a mounting fin kerf in said nosing, located outwardly of the distal end of said outer panel, such that the distal end of the outer panel is disposed generally between the mounting fin kerf and the main side panel.

42. In combination, an elongate nosing, an elongate mounting fin, and an elongate jamb,

(a) said elongate jamb comprising a main side panel, and an outer panel extending at an angle transverse to said main side panel and away from said main side panel to a distal end of said outer panel, a first mounting structure comprising first and second locks, said first and second locks being connected to and extending away from said outer panel in a common direction,

(b) said elongate nosing comprising second mounting structure, said second mounting structure being designed and configured to cooperatively mount to said first mounting structure, thereby to mount said nosing to said jamb, said nosing, when mounted to said jamb, extending away from said main side panel; and

(c) as a separate and distinct element, a mounting fin adapted to be mounted to said nosing to thereby form a nosing assembly, said mounting fin, when mounted to said nosing, and interfacing with a building to mount said mounting fin to such building, extending generally parallel to said outer panel, said mounting fin being deflectable, from a mounting position extending generally parallel to said outer panel, toward said main side panel of said jamb by about 90 degrees or more,

said elongate nosing having a proximal side, and extending, as a single-piece unitary structure, from the proximal side to a distal side of said elongate nosing.

43. A jamb assembly, comprising:

(a) an elongate jamb adapted and configured to interface with a doorway opening in a building, and comprising

a main side panel, and

an outer panel extending from a locus of joinder with said main side panel to a distal end of said outer panel,

said elongate jamb comprising first mounting structure extending from said outer panel,

(b) an elongate nosing comprising a front panel (56), and second mounting structure, comprising at least first and second legs, mounting said nosing to said jamb, said outer panel, when said jamb is mounted in an opening in a building, being disposed between at least one of said legs and an element of said jamb underlying said outer panel, and

(c) as a separate and distinct element, a mounting fin mounted to said nosing, said mounting fin being deflectable, from a mounting position extending generally parallel to said outer panel, toward said main side panel of said jamb, by about 90 degrees or more,

said nosing and said mounting fin defining an elongate nosing assembly, said elongate nosing assembly being a 2-component assembly comprising said nosing as a single-piece nosing, and said mounting fin.

44. A jamb assembly, defining a door frame, which generally defines a doorway opening, said door frame being adapted and configured to be mounted in an opening in a building, said jamb assembly generally having a main surface facing across such doorway opening, and a first outer surface facing away from such building, said jamb assembly comprising:

(a) an elongate jamb, comprising

(i) a main side panel,

(ii) an outer panel extending from a locus of joinder with said main side panel, and

(iii) first mounting structure, comprising first and second locks on said outer panel, said first and second locks being approximately equidistant from a common underlying element of said elongate jamb;

(b) a nosing comprising second mounting structure, cooperatively mounting to said first mounting structure, thereby mounting said nosing to said jamb; and

(c) as a separate and distinct element, a mounting fin mounted to said nosing, said mounting fin being deflectable toward said main side panel of said jamb by about 90 degrees or more.

45. A jamb assembly as in Claim 44, said nosing and said mounting fin, in combination, defining an elongate nosing assembly, extending along a length of said jamb, said elongate nosing assembly being a 2-component nosing assembly.

46. A combination as in Claim 42 wherein said nosing comprises an aluminum extrusion.

47. A jamb assembly as in Claim 43 wherein said jamb and said nosing comprise aluminum extrusions.

48. A jamb assembly as in Claim 44 wherein said jamb and said nosing comprise aluminum extrusions.

49. A frame assembly, defining at least a portion of a door frame which defines a doorway opening therethrough, such door frame being adapted and configured to be assembled to a building at an opening in such building, said frame assembly comprising an elongate frame element having a first length and an elongate nosing having a second length, said elongate nosing being joined to said frame element, said frame element having

- (a) a first side facing across the doorway,
- (b) a second side facing away from the doorway and away from the building, and extending from the first side, to a distal end of the second side, and
- (c) a third side facing away from the doorway, and in an opposite direction from the first side,

said elongate nosing having a proximal side, and extending as a single unitary structure from the proximal side to a distal side of said elongate nosing member,

said frame element and said nosing being mounted to each other through mounting structure which communicates with only one of the second and fourth sides of said frame element,

further comprising

a mounting fin kerf in said nosing, located outwardly of the distal end of the second side of said frame element, such that the distal end of the second side of said frame element is disposed generally between said mounting fin kerf and the first side of said frame element.

50. A frame assembly as in Claim 49, further comprising a mounting fin mounted in said mounting fin kerf, and wherein said mounting fin is adapted to be articulated toward the second side of said frame element.

51. A frame assembly as in Claim 49, further comprising a mounting fin mounted in said mounting fin kerf, said mounting fin being deflectable, from a mounting position extending generally parallel to said third side, toward said first side by about 90 degrees or more.

52. A frame assembly as in Claim 49, further comprising a mounting fin mounted in said mounting fin kerf, said frame element consisting of a generally continuous unitary structure extending from the third side to the first side.

53. A frame assembly as in Claim 49 wherein said frame element and said nosing comprise aluminum extrusions.

54. A nosing assembly combination, comprising a nosing finished to fit a first door size, and a mounting fin finished to fit such first door size, said nosing and said mounting fin being adapted and configured to be assembled to each other, thereby to form an elongate nosing assembly, such nosing assembly being designed and configured to be mounted to an elongate jamb plate corresponding to such first door size, wherein such elongate jamb plate is designed and configured to be mounted on an elongate jamb substrate of a door frame, wherein such elongate jamb plate comprises a main side panel, and at least one outer panel, such at least one outer panel being configured to extend at an angle transverse to such main side panel, and away from such main side

panel, a given one such outer panel bearing a first mounting structure having first and second locks (48A, 48B),

(a) said nosing comprising second mounting structure having third and fourth locks (54A, 54B), designed and configured to cooperatively mount to such first mounting structure of such jamb plate, thereby to mount said nosing to such jamb plate; and

(b) said mounting fin being designed and configured to be mounted to said nosing, and wherein said mounting fin, when mounted to said nosing, is adapted to be articulated toward such main side panel of such jamb plate, to a substantial degree when said nosing, with said mounting fin mounted thereto, is mounted to a such jamb plate,

said nosing having a proximal side and extending, as a single-piece unitary structure, from the proximal side to a distal side (58) of said elongate nosing.

55. A combination as in Claim 54 wherein said mounting fin, when mounted to said nosing, is adapted to be articulated toward such main side panel of such jamb plate, and into proximity with a jamb substrate when said nosing, with said mounting fin mounted thereto, is mounted to a such jamb plate which is mounted to a such jamb substrate.

56. A nosing assembly combination as in Claim 54 wherein said nosing comprises an aluminum extrusion having a nominal profile thickness of about 0.06 inch.

57. A jamb cover assembly combination comprising an elongated jamb plate finished to fit a first door size, and an elongate nosing finished to fit such first door size, said jamb plate and said elongate nosing being collectively adapted and configured to be assembled into a jamb cover assembly which fits such first door size,

said jamb plate comprising a 2-panel jamb plate having

(a) a main side panel, and

(b) an outer panel extending from a locus of joinder with said main side panel, at an angle transverse to said main side panel, to a distal end of said outer panel,

said elongate nosing being designed and configured to extend along a substantial portion of such first length of said jamb plate and consisting of a single unitary structure,

said jamb plate and said nosing collectively comprising mounting structure whereby said jamb plate and said nosing are mounted to each other through mounting structure, at least a portion of said mounting structure communicating with said outer panel of said jamb plate,

further comprising,

a mounting fin kerf in said nosing, said mounting fin kerf, when said nosing is mounted to said jamb plate at said outer panel, being located outwardly of the distal end of said outer panel, such that the distal end of said outer panel is disposed generally between said mounting fin kerf and said main side panel, said mounting fin kerf defining an opening configured to receive a mounting fin thereinto.

58. A jamb cover assembly combination as in Claim 57, said mounting fin kerf being disposed at a distal side of said nosing, further comprising a mounting fin, said mounting fin being designed and configured to be mounted in said mounting fin kerf.

59. A jamb cover assembly combination as in Claim 57, said nosing having a proximal side and extending, as a single-piece structure, from the proximal side to a distal side (58) of said nosing, and wherein said nosing comprises a brick mold nosing which is defined, along the second length, by a generally constant cross-section.

60. A jamb cover assembly combination as in Claim 58, said nosing having a proximal side and extending, as a single-piece structure, from the proximal side to a distal side (58) of said nosing, and wherein said nosing comprises a brick mold nosing which is defined, along the second length, by a generally constant cross-section.

61. A jamb cover assembly combination as in Claim 58 wherein said mounting fin is designed and configured such that, when said mounting fin is mounted in the mounting fin kerf, and said nosing and said jamb plate are mounted to each other, and when said

jamb plate is mounted to a jamb substrate, said mounting fin is capable of being articulated toward said main side panel and into proximity with such jamb substrate.

62. A door frame having a left frame element, a right frame element, and a top frame element, said left frame element, said right frame element, and said top frame element being assembled from a jamb cover assembly combination as in Claim 57.

63. A nosing assembly combination as in Claim 54 wherein said nosing comprises a brick mold nosing.

64. A nosing assembly combination as in Claim 54 wherein said nosing, when assembled to said mounting fin, and to such jamb plate, extends outwardly, away from such main side panel, in a direction comprising substantially an extension of such outer panel, and beyond such distal end of such outer panel.

65. A jamb cover assembly combination as in Claim 57 wherein said jamb plate and said nosing comprise aluminum extrusions.

66. In combination, an elongate jamb plate finished to fit a first door size, an elongate nosing finished to fit such first door size, and an elongate mounting fin finished to fit such first door size, said jamb plate being designed and configured to be mounted on an elongate jamb substrate of a door frame of such first size,

(a) said elongate jamb plate comprising a main side panel, and a first outer panel, extending at an angle transverse to said main side panel, and away from said main side panel, said elongate jamb plate further comprising a first mounting structure comprising first and second locks, said first and second locks being connected to said outer panel, and extending away from said outer panel, in a common direction,

(b) said nosing comprising second mounting structure, designed and configured to cooperatively mount to said first mounting structure, thereby to

mount said nosing to said jamb plate, said nosing, when mounted to said jamb plate, extending away from said main side panel,

(c) said mounting fin being adapted to be mounted to said nosing to thereby form a nosing assembly, said finished mounting fin, when mounted to said nosing, and interfacing with a building to mount said mounting fin thereto, extending generally parallel to said outer panel, said mounting fin being deflectable, from a mounting position extending generally parallel to said outer panel, toward said main side panel of said jamb plate by about 90 degrees or more.

67. A combination as in Claim 66, said nosing having a proximal side and extending, as a single-piece unitary structure, from the proximal side to a distal side (58) of said elongate nosing.

68. A jamb cover assembly combination, comprising:

(a) an elongate jamb plate finished to fit a first door size, said elongate jamb plate being adapted and configured to interface with a doorway substrate, and comprising

a main side panel, and

an outer panel extending from a locus of joinder with said main side panel,

said elongate jamb plate comprising first mounting structure extending from said outer panel,

(b) an elongate nosing comprising a front panel (56), and second mounting structure, comprising at least first and second legs, mounting said nosing to said jamb plate, said outer panel, when said jamb cover is mounted in an opening in a building, being disposed between at least one of said legs and such substrate, and

(c) as a separate and distinct element, a mounting fin adapted to be mounted to said nosing, said mounting fin being deflectable, from a mounting position extending generally parallel to said outer panel, toward said main side panel of said jamb plate, by about 90 degrees or more.

69. A jamb cover assembly combination as in Claim 68, said elongate nosing having a proximal side and extending, as a single-piece unitary structure, to a distal side (58) of said elongate nosing.

70. A jamb cover assembly combination comprising an elongate jamb plate finished to fit a first door size, an elongate nosing finished to fit such first door size, and an elongate mounting fin finished to fit such first door size, said jamb plate, said nosing, and said mounting fin, collectively, being adapted and configured to be assembled into a jamb cover assembly, such jamb cover assembly being adapted and configured to be mounted to a substrate to thereby define a door frame member, a plurality of such door frame members being adapted and configured to, at least in part, define a door frame, such door frame, at least in part, generally defining a doorway opening, such door frame being adapted to be mounted in an opening in a building, such door frame generally having a main surface facing across such doorway opening, and a first outer surface facing away from such building, said jamb cover assembly comprising:

- (a) said elongate jamb plate comprising
 - (i) a main side panel,
 - (ii) an outer panel extending from a locus of joinder with said main side panel, and
 - (iii) first mounting structure, comprising first and second locks on said outer panel, said first and second locks being proximate a common face of such substrate;
- (b) said nosing comprising second mounting structure, adapted to cooperatively mount to said first mounting structure, thereby to mount said nosing to said jamb plate; and
- (c) said mounting fin being adapted to be mounted to said nosing, said mounting fin, when mounted to said nosing, being deflectable toward said main side panel of said jamb plate by about 90 degrees or more.

71. A combination as in Claim 66 wherein said jamb plate and said nosing comprise aluminum extrusions.

72. A combination as in Claim 68 wherein said jamb plate and said nosing comprise aluminum extrusions.

73. A combination as in Claim 70 wherein said jamb plate and said nosing comprise aluminum extrusions.

74. A frame assembly combination, adapted and configured to be assembled into a frame assembly, said frame assembly combination comprising an elongate first frame member finished to fit a first size doorway and an elongate nosing finished to fit such first size doorway,

said first frame member consisting of a single unitary structure, said first frame member having

- (a) a main side panel on a first side of said first frame member, and
- (b) an outer panel on a second side of said first frame member, and extending from a locus of joinder with said main side panel, at an angle transverse to said main side panel, to a distal end of said outer panel,

said elongate nosing having a proximal side and extending, as a single-piece unitary structure, from the proximal side to a distal side (58) of said elongate nosing, said elongate nosing, when finished to fit such first door size, extending along a substantial portion of a first length of said first frame member,

said first frame member and said nosing collectively comprising mounting structure whereby said first frame member and said nosing are adapted and configured to be mounted to each other through mounting structure which communicates with said outer panel portion of said first frame member, thereby to assemble a frame assembly, a plurality of such frame assemblies being adapted and configured to be assembled into a door frame which fits such first door size, which door frame defines a doorway extending through such door frame,

further comprising,

a mounting fin kerf in said nosing, said mounting fin kerf, when said finished first frame member and said finished nosing are mounted to each other, being, located outwardly of the distal end of said outer panel, such that the distal end of said outer panel is disposed generally between said mounting fin kerf and said main side panel.

75. A frame assembly combination as in Claim 74, said mounting fin kerf defining an opening, the opening being configured to receive a mounting fin thereinto, further comprising a mounting fin in said mounting fin kerf, and wherein said mounting fin is adapted to be articulated toward the first side of said first frame member.

76. A frame assembly combination as in Claim 74, said mounting fin kerf defining an opening, the opening being configured to receive a mounting fin thereinto, further comprising a mounting fin in said mounting fin kerf, said mounting fin being deflectable, from a mounting position extending generally parallel to the second side, toward the first side by about 90 degrees or more.

77. A frame assembly combination as in Claim 74, said first frame member further comprising a third side, which third side faces away from such doorway and in a direction generally opposite the first side, said mounting fin kerf defining an opening, the opening being configured to receive a mounting fin thereinto, further comprising a mounting fin in said mounting fin kerf, said first frame member extending along a generally continuous path between the third side and the first side.

78. A frame assembly as in Claim 74 wherein said first frame member and said nosing comprise aluminum extrusions.

79. In combination, an elongate nosing, and an elongate jamb, collectively adapted to be joined to each other to define at least a portion of a door frame, such door frame at least in part defining a doorway opening

(a) said elongate jamb having a length, said elongate jamb comprising a main side panel, and an outer panel extending in a direction which defines an angle transverse to said main side panel, and extending away from said main side panel to a distal end; and

(b) said elongate nosing being designed and configured to extend along a substantial portion of the length of said elongate jamb,

said jamb and said nosing collectively comprising mounting structure whereby said jamb and said nosing are adapted and configured to be mounted to each other through such mounting structure which communicates with said outer panel of said jamb, such that said nosing overlies at least a portion of said outer panel and does not overlie said main side panel,

said elongate nosing having a proximal side, and extending as a single unitary structure from the proximal side to a distal side (58) of said elongate nosing, and wherein, when said jamb and said nosing are assembled to each other and at least in part define a portion of such door frame, and such door frame at least in part defines such doorway opening, the distal side of said nosing faces away from such doorway opening and is disposed beyond the distal end of said outer panel of said jamb, such that the distal end of said outer panel is disposed between the distal side of said nosing and said main side panel of said jamb.

80. A combination as in Claim 79, further comprising a mounting fin, said mounting fin and said nosing being collectively adapted and configured to enable assembling said mounting fin and said nosing to each other, and wherein said mounting fin is designed and configured such that said mounting fin is capable of being articulated toward said main side panel.

81. A door frame comprising a left frame element, a right frame element, and a top frame element, said left frame element, said right frame element, and said top frame element being assembled from combinations as in Claim 79.

82. A door frame as in Claim 79 wherein said jamb and said nosing comprise aluminum extrusions.

83. A door frame assembly combination which, when assembled into a door frame assembly, defining at least a portion of a door frame which defines a doorway opening therethrough, such door frame being adapted and configured to be assembled to a building at an opening in such building, said door frame assembly combination comprising an elongate jamb substrate having a first length, an elongate jamb plate having a second length generally corresponding to the first length and an elongate nosing having a third length generally corresponding to the second length, said elongate nosing being joined to said jamb plate,

said jamb plate and said jamb substrate defining a frame element subassembly, said frame element subassembly having

- (a) a first side defined by said jamb plate and facing across the doorway,
- (b) a second side defined by said jamb plate and facing away from the doorway and away from the building, and
- (c) a third side defined by said jamb substrate and facing away from the doorway, and in an opposite direction from the first side,

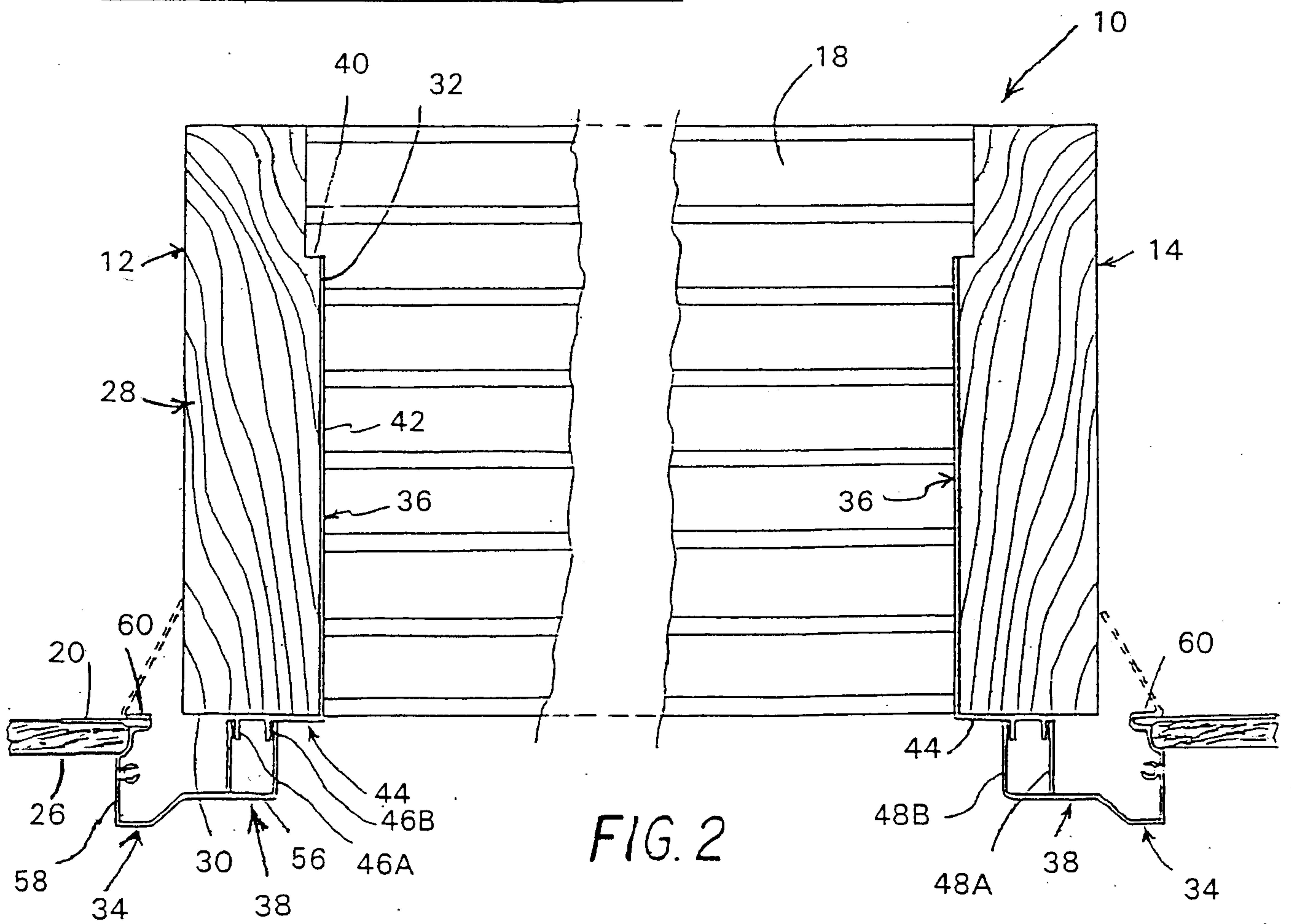
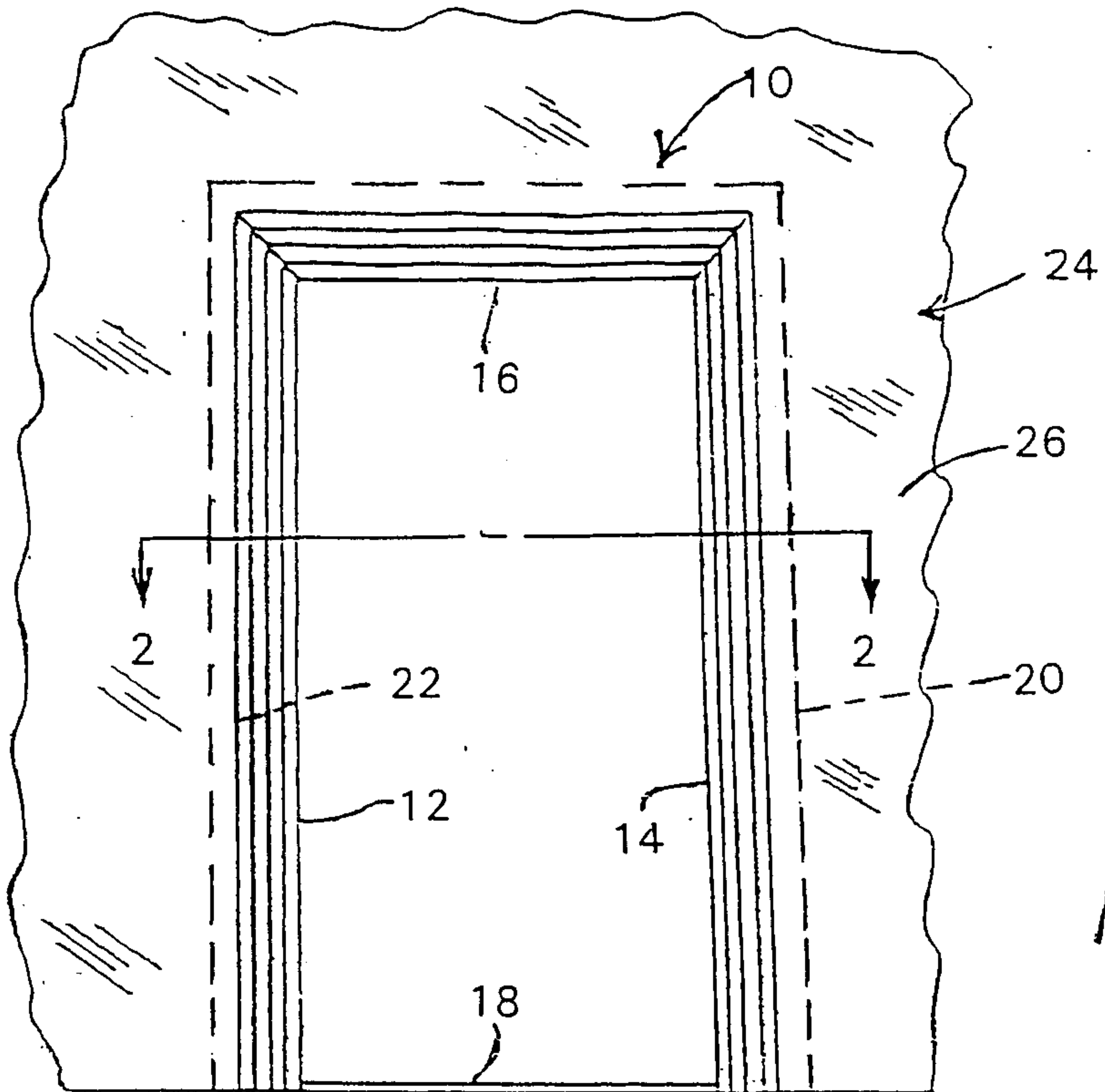
said elongate nosing having a proximal side, and extending as a single unitary structure from the proximal side to a distal side of said elongate nosing member,

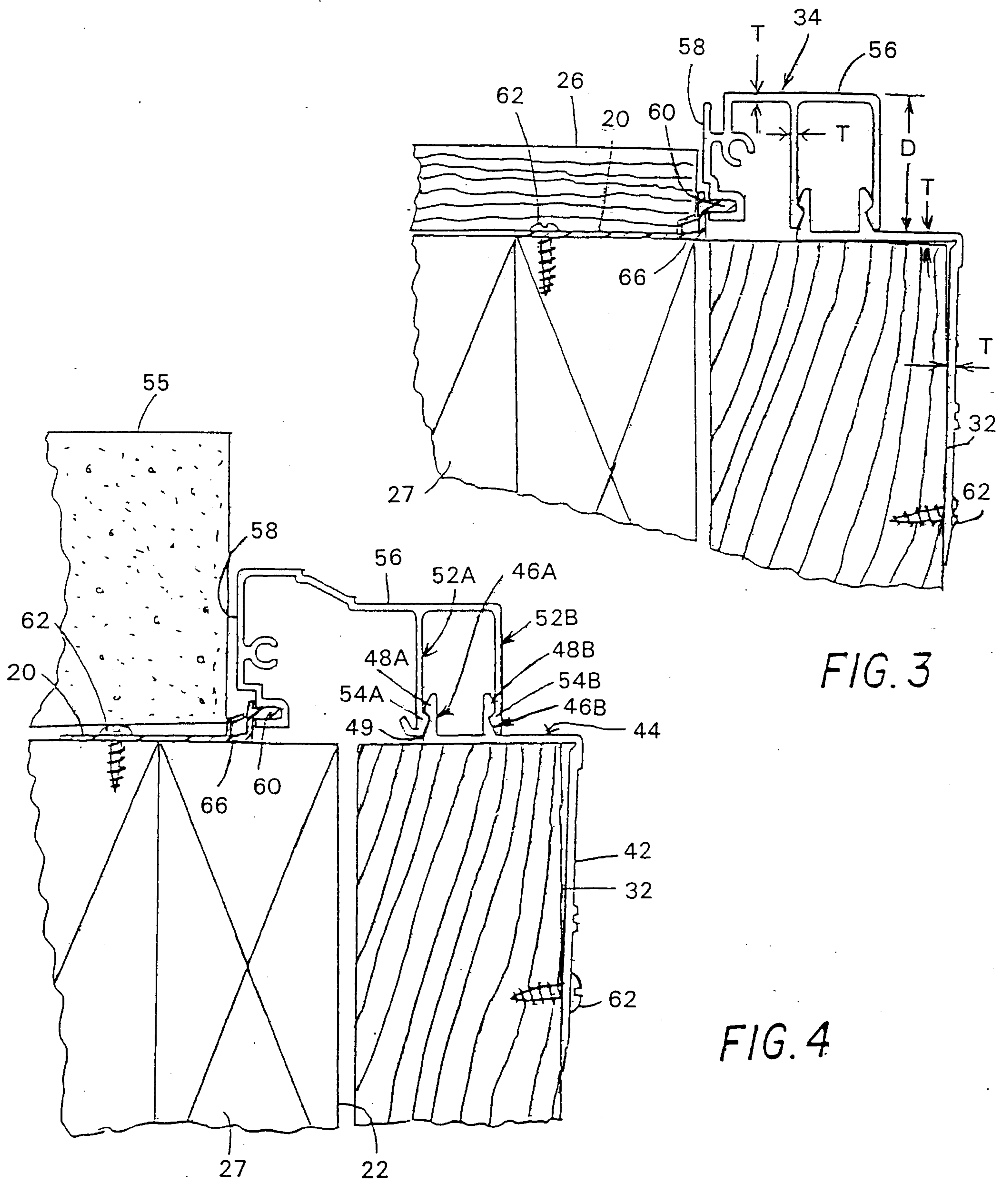
said frame element and said nosing being mounted to each other through mounting structure which communicates with only one of the second and fourth sides of said frame element,

further comprising

a mounting fin kerf in said nosing, located outwardly of the third side of said frame element, such that the third side of said frame element is disposed generally between said mounting fin kerf and the first side of said frame element.

84. A frame assembly as in Claim 83 wherein said frame element and said nosing comprise aluminum extrusions.





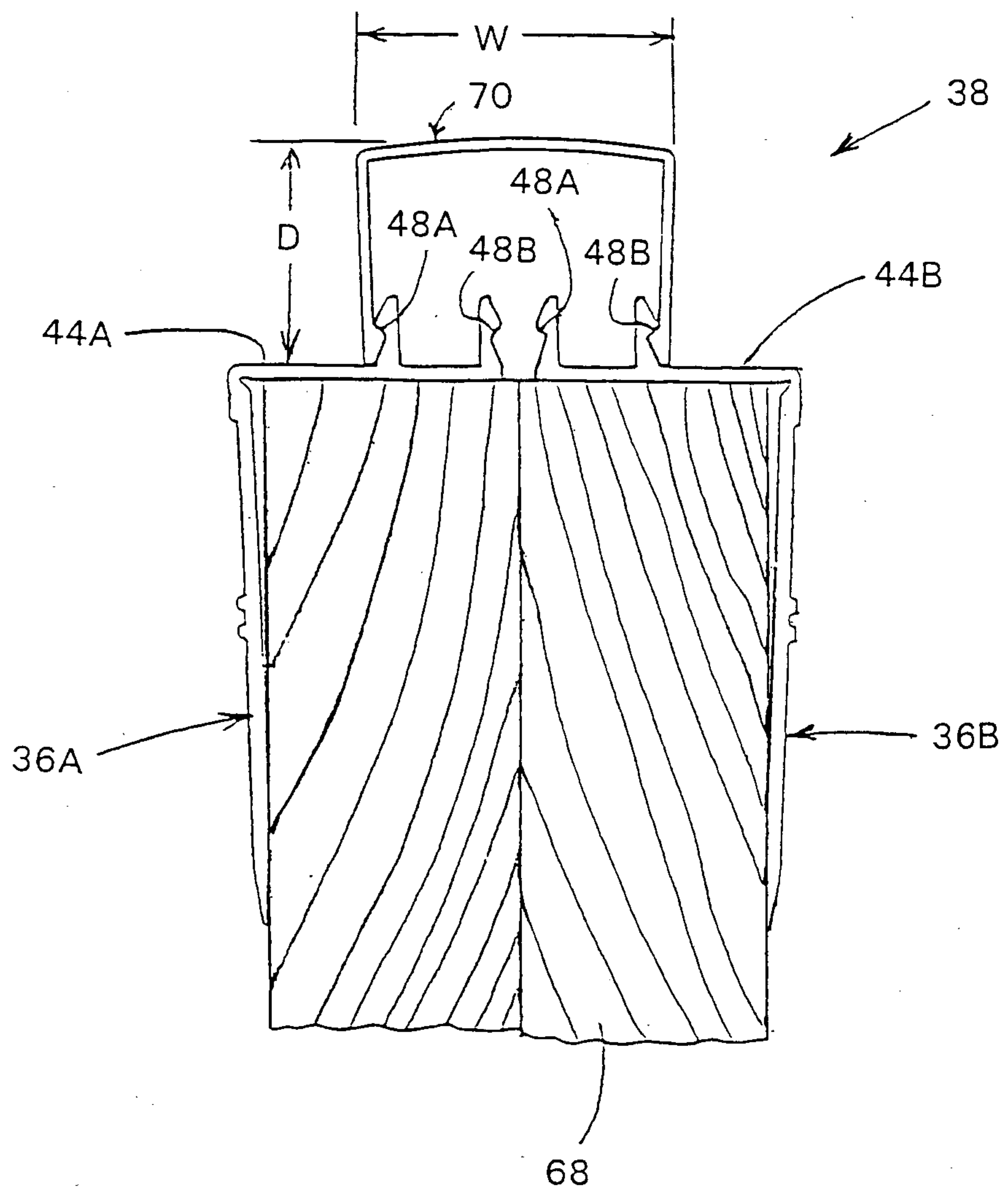


FIG. 5

