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Mundy

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[54] **INTEGRAL PREFINISHED WOOD BASE DOOR AND SPLIT JAMB ASSEMBLY**

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[52] **U.S. Cl.** **49/380,** 49/505, 52/212

[51] **Int. Cl.** **E06b 1/10**

[58] **Field of Search** 49/380, 501, 504, 49/505; 52/631, 211, 212, 217

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[57] **ABSTRACT**

This invention relates to a door and jamb assembly and more particularly to one of a split, tongue and groove, jamb construction having a prefinished wood base. The jamb assembly includes male and female sections joined in a tongue and groove fashion for adaptability to various wall thicknesses, and each having a casing member and jamb member, and the female section having a doorstop, formed integrally for assembly as a one-piece unit. The entire jamb assembly is prefinished in vinyl, and the door is prehung on the female section.

7 Claims, 6 Drawing Figures

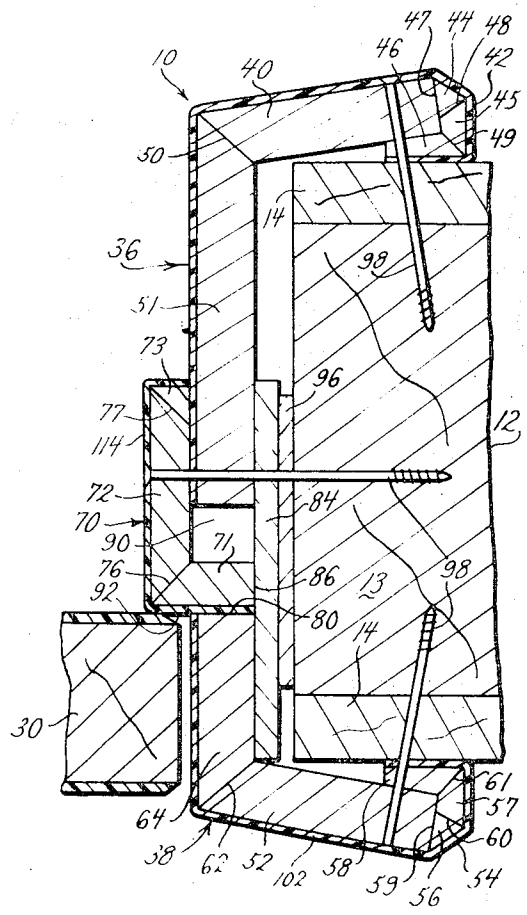


FIG. 1.

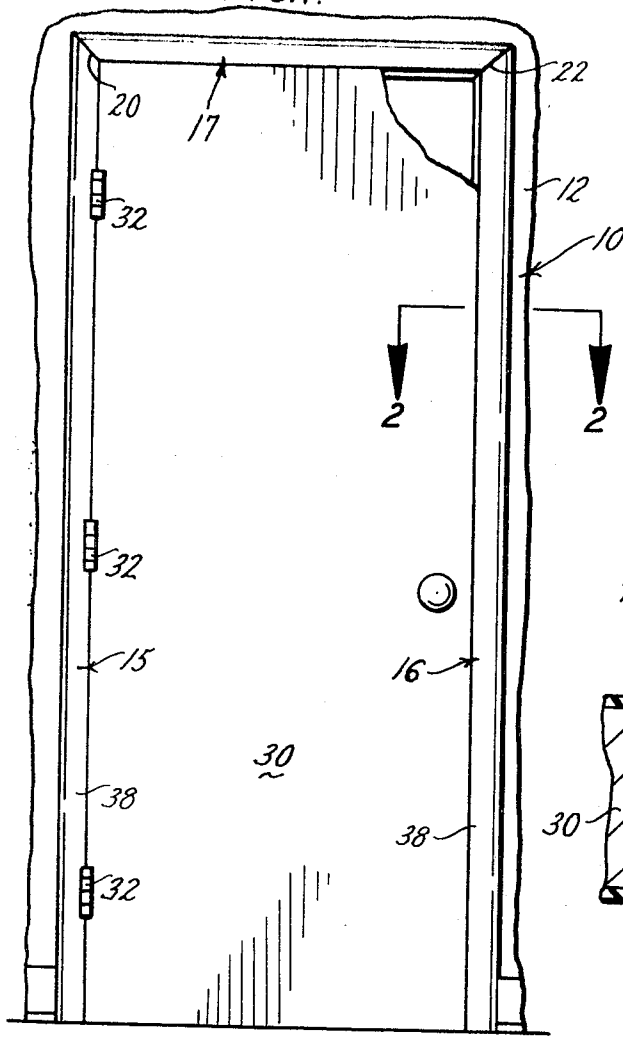


FIG. 2.

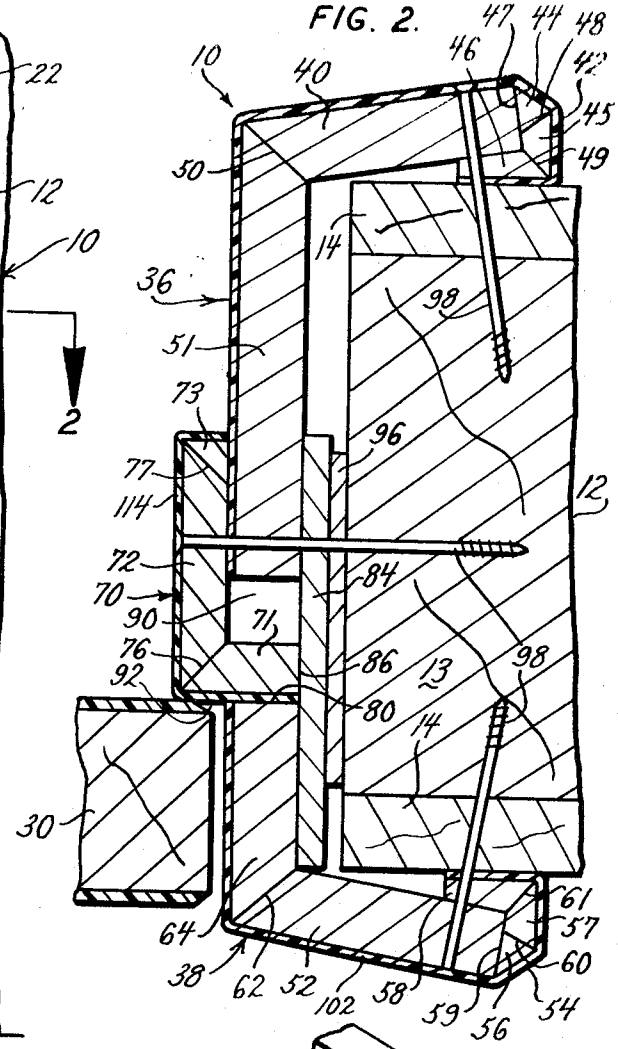


FIG. 3.

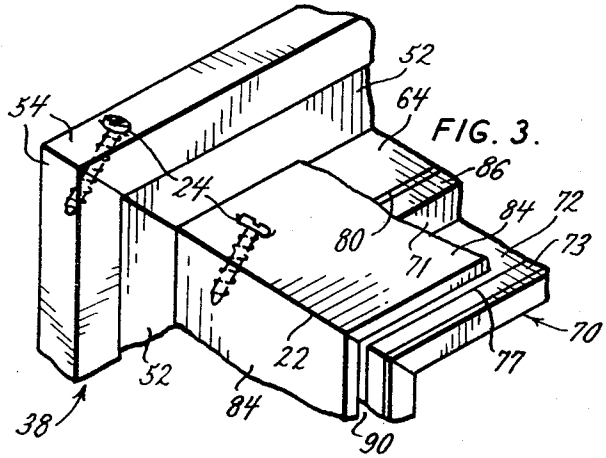
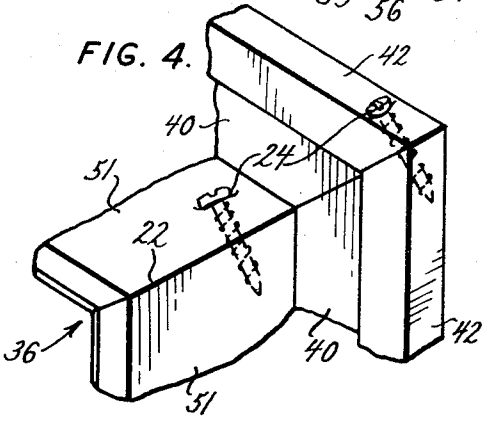


FIG. 4.



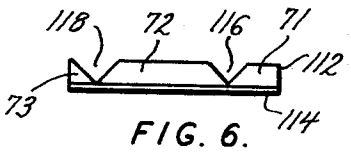


FIG. 6.

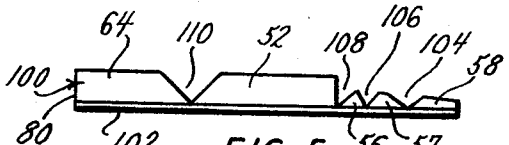


FIG. 5.

INTEGRAL PREFINISHED WOOD BASE DOOR AND SPLIT JAMB ASSEMBLY

SUMMARY OF THE INVENTION

There has long been a need to minimize the installation and finishing time required at the job site on doors and door-jambs.

The door and jamb assembly of this invention has among its advantages a wood base construction and vinyl finish for attractiveness and durability, a split tongue and groove construction for adaptability to a variety of wall widths, preformed casing, jamb, and doorstop as integral units, and a prehung door as part of the assembly, all of which minimize installation time and cost and eliminate finishing at the job site, as well as provide a near perfect fit every time.

The jamb assembly generally includes a male section having casing and tongue members, and a female section having casing and groove members, each of the male and female sections being of prefinished, vinyl covered wood base construction and preformed as an integral unit. Also formed integrally with the female section is a doorstop. A door is prehung to the female section on suitable hinges and prefinished as desired.

Hence, it is the general object of this invention to provide a door and jamb assembly that is preformed and prefinished at the factory to provide a minimum of installation time and cost and eliminate the need for finishing at the job site.

Other objects will become apparent from the following drawings and detailed description of the invention.

DESCRIPTION OF THE DRAWINGS

FIG. 1 is a frontelevation view of the door and jamb assembly of this invention shown installed in the rough opening of a wall;

FIG. 2 is an enlarged view in section taken along the line 2—2 of FIG. 1;

FIGS. 3 and 4 are isometric views showing the manner in which the female and male sections, respectively, of adjacent jamb segments are joined and aligned at a mitered corner; and

FIGS. 5 and 6 are end views of vinyl covered boards used for describing the manner in which the jamb assembly is formed.

DETAILED DESCRIPTION OF A PREFERRED EMBODIMENT

Referring to the drawings there is shown a door and jamb assembly **10** as mounted in a doorway opening in a wall **12**. The wall **12** might, for example, be of conventional construction of wood frame members, such as two-by-fours **13** with drywall covering **14** on each side. The assembly **10** has a left side jamb segment **15**, a right side jamb segment **16**, and a top jamb segment or header **17** (as viewed in FIG. 1) joined and aligned at mitered joints **20** and **22** with screws **24** (FIGS. **3** and **4**) or other suitable means. A door **30** is mounted on hinges **32** to the left jamb segment **15** as will be described.

Each of the jamb segments **15**, **16**, and **17** are of generally the same construction as best shown in FIG. **2**, with each segment having a male portion **36** and a female portion **38**. The male portion **36** has a casing member **40** having an end **42** that rests against one side of the wall **12** and is formed with sections **44**, **45**, and **46** and joints **47**, **48**, and **49** as will be described. The

casing member **40** covers the edge of the drywall covering **14** to give a finished, attractive appearance, and has another end joined, in a manner to be described, at a joint **50** to a facing or tongue member **51** extending part way across the end of the wall **12**. The female portion **38** has a casing member **52**, like the casing member **40**, which has an end **54** that rests against the other side of the wall **12** and is formed with sections **56**, **57**, and **58** and joints **59**, **60**, and **61** as will be described, and another end joined in a manner to be described at a joint **62** to one end of a facing or jamb member **64** extending part way across the end of the wall **12** toward the tongue member **51**.

An L-shaped member **70** has sections **71**, **72**, and **73** formed in joints **76** and **77** in a manner to be described. The outer surface of the section **71** of the L-shaped member **70** is joined such as by gluing to the end **80** of the facing or jamb member **64**. A flat reinforcing strip **84** is glued to the back of the facing member **64** and the end **86** of the section **71** of the L-shaped member **70**, and extends across the end of the wall **12** a distance substantially equal to that of the L-shaped member **70**, thus defining with the L-shaped member **70** a groove **90** for receiving the end of the tongue member **51**.

As shown in FIG. **2**, the section **71** of the L-shaped member **72** extends within the doorway opening a distance past the outer surface of the facing member **64** to form a shoulder or stop **92** against which the outer edge of the door **30** rests when closed, thus forming a doorstop, jamb, and casing as an integral assembly.

Shims **96** are placed as necessary between the end of the wall **12** and the reinforcing strip **84**, and nails **98** driven through the casing portions **40** and **52**, and through the L-shaped member **70**, tongue member **51**, reinforcing strip **84**, and shims **96** into the wall **12** for securing the door and jamb assembly in place.

It is a primary feature of this invention that each of the male and female sections **36** and **38** of the jamb assembly is formed and preassembled as a one-piece integral unit, and the hinges **32** premounted to the door **30** and jamb member **64** to minimize installation at the job site. Another primary feature is that the entire assembly is a prefinished wood base structure eliminating the need for finishing after the assembly is installed, each of the male and female sections **36** and **38** covered with a suitable film layer, preferably of vinyl, as will be described. Even the heads of the nails **98** are prefinished to match the color of the jamb and door so that not even touch-up finishing is required after the unit is installed.

Referring to FIGS. **5** and **6**, there is shown the manner in which the female section **38** of the jamb assembly is formed. A flat wood board **100** such as, for example, particle board of an appropriate width necessary to form the end **54**, the casing member **52**, and the jamb member **64** of the female section **38**, is covered on one side with a vinyl layer **102** in a manner conventional in the art. A series of parallel grooves **104**, **106**, **108**, and **110** are cut along the length and completely through the board **100** but not through the vinyl covering **102**. The top surface of the board **100** is tapered at the right end as viewed in FIG. **5** to form the end **54** of the casing member **52**. Glue is inserted in each of the grooves, and then using the vinyl covering **102** as a hinge, the sections of the board **100** are folded so as to close the grooves and form the joints **61**, **60**, **59**, and **62** of the female section **38**. The angle sizes of the grooves and

their relative locations are chosen such that when the folds are made the end sections **56, 57,** and **58,** the casing member **52,** and the jamb member **64** are formed.

Referring to FIG. **6** it will be obvious that the L-shaped member **70** is formed in a similar manner starting with a flat board **112** having a vinyl covering **114** and parallel grooves **116** and **118** which when covered with glue and closed form the joints **76** and **77,** respectively, of the L-shaped member **70.** Next, the end **80** of the jamb member **64** is joined such as by gluing to the vinyl covered surface of the section **71** of the L-shaped member **70,** and the reinforcing strip **84** is glued to the back of the jamb member **64** and the end **86** of the L-shaped member **70** as shown in FIG. **2.**

The male section **36** is formed in the manner shown in FIG. **5** except, of course, the member **64** would be wider to form the tongue member **51.**

As seen in FIG. **2** the tongue member **51** and groove **90** are each made to extend sufficiently across the end of the wall **12** such that the end of the tongue member **51** is free to position itself within the groove **90** to accommodate walls of varying thicknesses.

INSTALLATION

The unit is packaged with each male and female section **36** and **38** of each jamb segment **15, 16,** and **17** preformed and prefinished as heretofore described, and with the door prefinished to match that of the jamb assembly and prehung with the hinges **32** mounted to the facing member **64** of the female section **38** in either a right-hand or left-hand door configuration as desired. The female sections **38** of the jamb segments **15, 16,** and **17** are joined first by the screws **24** provided to form the mitered joints **20** and **22.** Each of the segments **15, 16,** and **17** are precut to the correct length and with mitered ends to form the joints **20** and **22.** Appropriate screw holes for the screw **24** are also provided in exact alignment to form the joints. The male sections **36** are assembled in a similar manner. Next, the assembled female sections **38** are placed within the rough wall opening with the ends **54** flush against the surface of the wall. Shims **96** are placed between the end of the wall **12** and the female sections as necessary, and particularly at the locations of the hinges **32** and where the nails **98** will be driven through the tongue and groove, to solidly support the jamb assembly to the wall. Prefinished nails **98** are driven through the casing member **52** into the wall **12** to hold the female section in place.

The assembled male sections are then mounted as a unit with the tongue member **51** inserted into the groove **90** of the assembled female sections and the ends **42** of the male sections resting flush against the opposite side of the wall **12.** The prefinished nails **98** are driven through the casing member **40** into the wall **12,** and also through the L-shaped member **70,** the tongue member **51,** the reinforcing strip **84,** and the shims **96** to firmly secure the casing assembly to the wall. Several such nails are driven around the casing assembly at the locations of the shims. With this, the entire installation is complete and the assembly ready for use.

From the foregoing it is obvious that a novel door and jamb assembly has been described which provides a minimum of installation time and eliminates the need for finishing at the job site, which is formed in a novel manner to greatly reduce its cost and provide exceptional durability, which is attractive, which is adaptable to fit a variety of wall thicknesses, and which insures a near perfect fit each time, as well as provides the other novel features set forth herein.

Various changes and modifications may be made in this invention, as will be readily apparent to those skilled in the art. Such changes and modifications are within the scope and teaching of this invention as defined by the claims appended hereto.

What is claimed is:

1. An adjustable preformed doorjamb assembly having a wood particle board base construction for mounting in a rough opening of a wall, said assembly comprising a first section having a casing member and a tongue member joined thereto forming at the joint an outer corner, the casing member covering the edge of one of the outside surfaces of the wall, the tongue member extending from the casing member part way across the end of the wall, a second section having a casing member and a facing member joined thereto forming at the joint an outer corner, the casing member covering the edge of the other outside surface of the wall, the facing member extending from the casing member part way across the end of the wall toward the tongue member, a groove member attached to the second section at the end of the facing member opposite the casing member, the groove member having a groove of generally U-shaped cross section adapted to receive an end portion of the tongue member, the length of the tongue member and depth of the groove being such as to provide varying degrees of insertion of the tongue member into the groove between preselected limits to provide adjustability of the doorjamb assembly to accommodate any wall thickness within a predetermined range, the bottom and outer sides of the groove member being joined at an outer corner with the bottom of the groove member extending outwardly past the outer surface of the second section facing and defining a doorstop surface, each of the first and second sections being preformed as an integral, one-piece unit from a wood particle board base material covered with a prefinished flexible film laminate, the outer corner joints of each of the sections being closed and glued V-shaped grooves in the particle board but not through the laminate with the angle of each V-shaped groove being chosen to form the required corner angle, the laminate acting as a hinge about which the grooves are closed to form the outer corners, whereby each section is completely covered with the prefinished film laminate which extends continuously over the outer corners, and whereby the result is an adjustable, preformed, two-section jamb assembly which is both completely prefinished and of inexpensive particle board construction.

2. The doorjamb assembly of claim **1** wherein for at least one of the casing members a portion of its edge furthest from the opening is folded, by means of V-shaped grooves formed in the particle board base, under and back on itself to rest against the outside surface of the wall.

3. The doorjamb assembly of claim **2** wherein the length of the folded back portion is sufficiently great to receive a nail therethrough for securing the casing to the wall.

4. The doorjamb assembly of claim **14** including a door premounted to the facing member of the second section.

5. The doorjamb assembly of claim 4 wherein the door is prefinished in a selected manner.

6. The doorjamb assembly of claim 14 wherein the groove member includes an L-shaped member, means joining the outside surface of one leg of the L-shaped member to the end of the facing member, and a reinforcing strip secured to the back of the facing member and the end of the one leg of the L-shaped member, the reinforcing strip extending past the one leg of the L-shaped member toward the first section to define with the L-shaped member the groove for receiving the tongue member.

7. The doorjamb assembly of claim 14 wherein the film laminate is vinyl.

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