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(54) **Peripheral supporting framework for doors of inhabited buildings**

(57) Peripheral supporting framework for doors of inhabited buildings, of which the vertical edge covering plates (7, 8), upper edge covering plates (10, 11) and central case (9) are shaped in such a manner that the door arranges itself, on its closing position, aligned front-

tally with the vertical front edge covering plate (7), that the framework (5) may be adjusted for being adapted to walls with different size, and that the back edge covering plate (8) and the case (9) have an outer continuous profile on all the adjustment positions of the same framework.

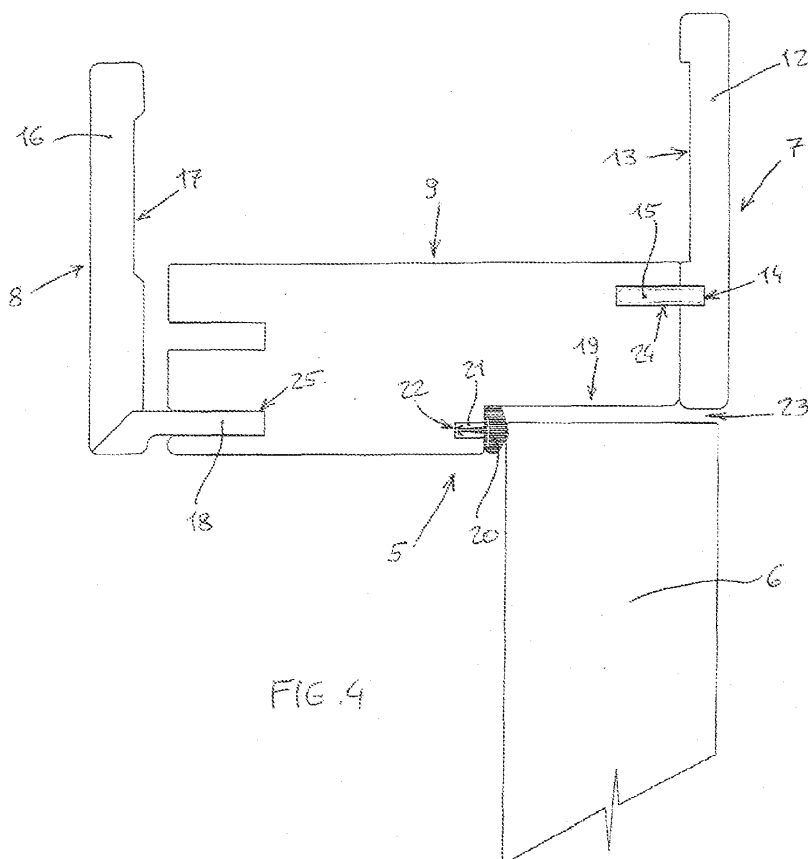


FIG. 4

Description

[0001] The invention relates to a peripheral supporting framework for doors of inhabited buildings, made with such constructive characteristics as to allow each door to be supported on a condition aligned with the same framework.

[0002] At the present time, the doors of inhabited buildings are assembled on to a peripheral framework secured into the openings of the walls of the same buildings, to which the hinges for supporting the doors are fixed, which hinges permit the doors to be opened and closed. Such peripheral framework is constituted by a front vertical edge covering plate, a back vertical edge covering plate and an upper horizontal front edge covering plate and an upper horizontal back edge covering plate, which are joined together by a central case in which the door is mounted, and between the case and the vertical and horizontal edge covering plates there are delimited a front and a back peripheral edge, which are re-entering with respect to the relative peripheral edge covering plates.

[0003] With this structural configuration of the door and framework, therefore, the framework is surrounded from both sides by such peripheral edge, which cannot be eliminated and is always visible in any position in which the door is displaced, while the side opposite to the side in which the door is supported is shaped with a discontinuous surface, and in this way the assembly framework-door hasn't an uniform aesthetical appearance.

[0004] The object of the present invention is to overcome these drawbacks, by eliminating the presence of said peripheral edges and the discontinuous surface, and by providing a peripheral supporting framework for doors which is so shaped as to cover the peripheral edge on both sides of the framework and to obtain a continuous surface on the side opposite to that in which the door is supported, thereby conferring an uniform and agreeable aesthetical appearance to these component parts. This peripheral framework is made with the structural characteristics which will be described, with particular reference to the attached claims of the present patent.

[0005] The invention will be better understood from the following description, given by way of not limitative example and with reference to the accompanying drawings in which :

- Fig. 1 shows a view from a side of the framework according to the invention, with a door mounted thereon ;
- Fig. 2 shows a schematic side view of the framework and the door of Fig. 1 ;
- Fig. 3 shows a schematic plan view of the framework and the door of Fig. 1 ;
- Fig. 4 shows a plan view of the various component parts of the framework according to the invention, with a door mounted thereon ;
- Fig. 5 shows a perspective front view of a portion of the framework and the door of Fig. 4 ;

- Fig. 6 shows a perspective front and exploded view of another portion of the framework according to the invention ;
- Fig. 7 shows a plan view of a constructive element of the component parts of Fig. 4 ;
- Fig. 8 shows a plan view of another constructive element of the component parts of Fig. 4 ;
- Fig. 9 shows a plan view of another constructive element of the component parts of Fig. 4.

[0006] The above mentioned Figures schematically represent a peripheral supporting framework 5 for doors of inhabited buildings, which is secured into the openings of the walls of the same buildings, for supporting the door 6 and allowing the same to be opened and closed.

[0007] As visible from the Figs. 1-3, the peripheral framework 5 is formed by a set of component parts, which will be described in detail, and are shaped in a manner to determine two plane vertical side edge covering plates 7 and 8, parallel and spaced away from each other of an extent slightly larger than the wall thickness, and constituted respectively by a front vertical edge covering plate 7 and a back vertical edge covering plate 8, by a central case 9 for joining the edge covering plates 7 and 8 and by two upper horizontal plane edge covering plates 10 and 11, parallel and spaced away from each other like the preceding edge covering plates and also constituted by a front horizontal edge covering plate 10 and a back horizontal edge covering plate 11, joined to each other always by a central case 9, of which the front side edge covering plates 7 are extended around the door vertical sides for a height greater than that of the same door and have almost the same width, while the front upper edge covering plate 10 and the back upper edge covering plate 11 are extended horizontally around the door upper side and have a height equal to the width of the side edge covering plates 7 and 8, and the assembly upper edge covering plates 10, 11 - case 9 is joined at the upper side to the assembly side edge covering plates 7, 8 - case 9. In turn, the door 6 is supported by hinges (not indicated) fixed to the case 9, in such a manner that the door outer surface is perfectly aligned for the entire extent thereof with the outer surface of both the front side edge covering plate 7 and the corresponding upper front edge covering plate 10, while on the opposite side of the framework 5 such door be re-entering with respect to the outer surface of the back side edge covering plate 8 and the corresponding upper back edge covering plate 11 of the same framework.

[0008] Turning now to the Fig. 4, in which the framework 5 is shown, and to the Figs. 7-9 in which several component elements of the same are shown, it is noted that the front side edge covering plate 7 where the door is mounted is shaped with a rectilinear portion 12 having a determinate length and a limited thickness, the inner side of which is provided with a longitudinal hollow 13 adaptable along one of the side edges of the opening of the wall of the building and a blind hole 14, in which a

dowel 15 or other suitable fixing means is insertable for coupling with the central case 9 as it will be described. Moreover, the back side edge covering plate 8 is shaped with a rectilinear portion 16 parallel to the rectilinear portion 12 of the previous edge covering plate 7, having a determinate length and a limited thickness, the inner side of which is also provided with a hollow 17 adaptable along the other edge of the opening of the wall of the building, said rectilinear portion being in turn joined to a projection 18 bent orthogonally with respect thereto and adapted to be coupled as it will be described with the central case 9 of the framework 5 (see also Fig. 7).

[0009] Finally, the central case 9 is shaped, on the side in which the door 6 is mounted, with a plane peripheral recess 19 having parallelepiped form, and a vertical gasket 20 is fixed against this side for the entire height of the door, by means of a dowel 21 inserted into a corresponding blind hole 22 of such recess, in order to allow the abutment of the relative inner surface of the door displaced in the closed position thereof. In particular, this recess 19 is so dimensioned that when the door 6 is displaced on the closed position thereof its outer surface is aligned with the outer surface of the front side edge covering plate 7, and the door side is arranged close with respect to the opposite side of the recess 19 and the side edge covering plate 7, thereby defining a side slit 23 with reduced thickness, under the condition in which also an almost continuous outer surface is defined, which is formed by the side edge covering plate 7 and the closed door, which confers an agreeable aesthetical appearance to these component parts. This side of the central case 9 is further shaped with a side hollow 24 for inserting the dowel 15 therein and into the blind hole 14 of the front edge covering plate 7, with consequent coupling of this latter with the same central case.

[0010] On the side opposite to the side in which the door 6 is mounted, the central case 9 is also shaped with a hollow 25 for inserting the projection 18 of the back side edge covering plate 8 (see Fig. 9), with consequent coupling of these two component parts. Such projection may be inserted with different depths into the hollow 25, thereby changing of a certain extent the distance between the two edge covering plates 7 and 8, and permitting in this way the adaptation of the framework to walls having different sizes, without the need to use a specific framework for each wall having a determinate size. The back side edge covering plate 8 is made with an outer surface having rectilinear form, and its outer profile is always aligned with the outer profile of the central case 9, for any adjustment position of the distance between the two edge covering plates 7 and 8, thereby determining again a continuous outer surface with the framework, even in the passage port, without the presence of steps or edges. Finally, in the Fig. 6 there are shown the sole back upper edge covering plate 11 and the side vertical edge covering plates 7 and 8 and the relative case 9, which are always identical to the corresponding preceding component parts, except the back upper edge cov-

ering plate 11, the projection 18 of which is made longer than its rectilinear portion 16, in a manner that its end portions are protruded with respect to the same rectilinear portion, and that during the joining of these horizontal component parts with the vertical component parts such protruded end portions may be arranged on to the corresponding projections 18 of the vertical component parts, without determining any gap between the so joined parts.

Claims

1. Peripheral supporting framework for doors of inhabited buildings, comprising a front side vertical edge covering plate (7) and a back side vertical edge covering plate (8) joined by a vertical central case (9), an upper front horizontal edge covering plate (10) and an upper back horizontal edge covering plate (11) joined by a horizontal central case (9), of which said vertical edge covering plates (7, 8) are extended vertically around the side profile of the door (6) for an extent slightly larger than the thickness of the walls of each building and for a height greater than that of the same door, and said upper edge covering plates (10, 11) are extended horizontally around the door upper side, and the assembly upper edge covering plates (10, 11) - horizontal case (9) is joined at the upper side with the assembly side edge covering plates (7, 8) - vertical case (9), **characterized in that** said vertical edge covering plates (7, 8), upper edge covering plates (10, 11) and central case (9) are shaped in such a manner that the door arranges itself, on its closing position, aligned frontally with the front vertical edge covering plate (7), that the framework (5) may be adjusted for being adapted to walls of different size, and that said back edge covering plate (8) and said case (9) have a continuous outer profile on all the adjustment positions of the same framework.
2. Peripheral framework according to claim 1, **characterized in that** said front edge covering plate (7) is shaped with a rectilinear portion (12) having a determinate length and limited thickness, the inner side of which is provided with a longitudinal hollow (13) adaptable along one of the side edges of the opening of the wall of the building, and a blind hole (14) in which there are insertable fixing means (15) for coupling with said central case (9).
3. Peripheral framework according to claim 2, **characterized in that** said back edge covering plate (8) is shaped with a rectilinear portion (16) having a determinate length and limited thickness, the inner side of which is also provided with a hollow (17) adaptable along the other side of the opening of the wall of the building, said rectilinear portion (16) being in turn

joined with a projection (18) bent orthogonally with respect thereto and adapted to be coupled with said central case (9), in such a manner as to adapt these component parts to walls having different sizes.

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4. Peripheral framework according to claim 3, **characterized in that** said central case (9) is shaped, on the side in which the door (6) is mounted, with a peripheral recess (19), and at least a vertical gasket (20) is fixed against this side for the entire height of the door, for allowing the abutment of this latter on its closing position, said central case (9) being also shaped with a hollow (24) for inserting said fixing means (15) therein and into said blind hole (14) of either said front vertical edge covering plate (7) or said upper front edge covering plate (10), and on the opposite side said central case (9) being further shaped with a hollow (25) for inserting with different depths said projection (18) of either said vertical back edge covering plate (8) or said horizontal back edge covering plate (11), thereby changing of a certain extent the distance between said edge covering plates (7, 8 ; 10, 11), under the condition in which an outer continuous surface is determined between said back edge covering plate (8) and said case (9) for any adjustment position of the framework (5).

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5. Peripheral framework according to claim 4, **characterized in that** said upper back edge covering plate (11) has a projection (18) longer than its rectilinear portion (16), in a way that such protruded end portions of said projection (18) may be arranged, during the joining among the horizontal component parts and the vertical component parts, on to the corresponding projections (18) of the vertical component parts without determining any gap between the so joined parts.

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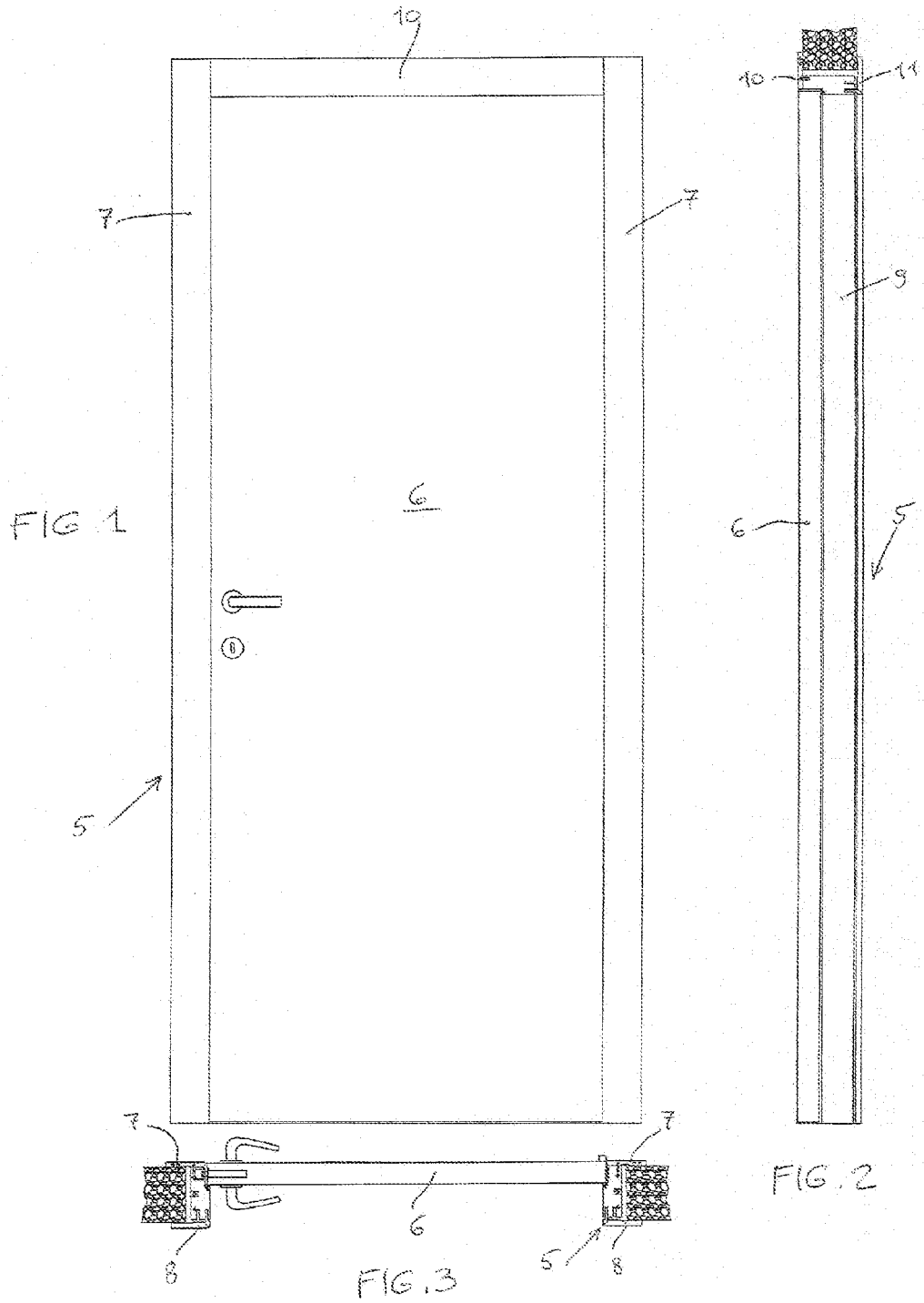
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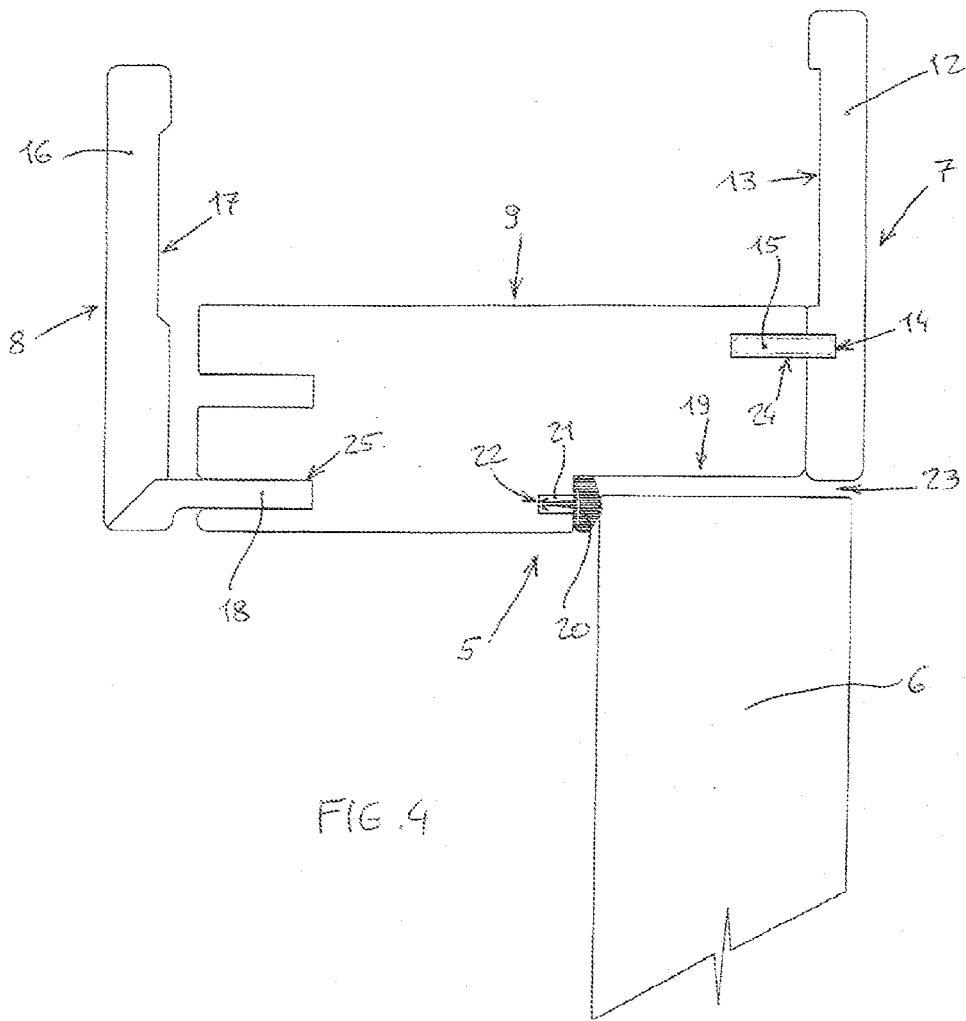
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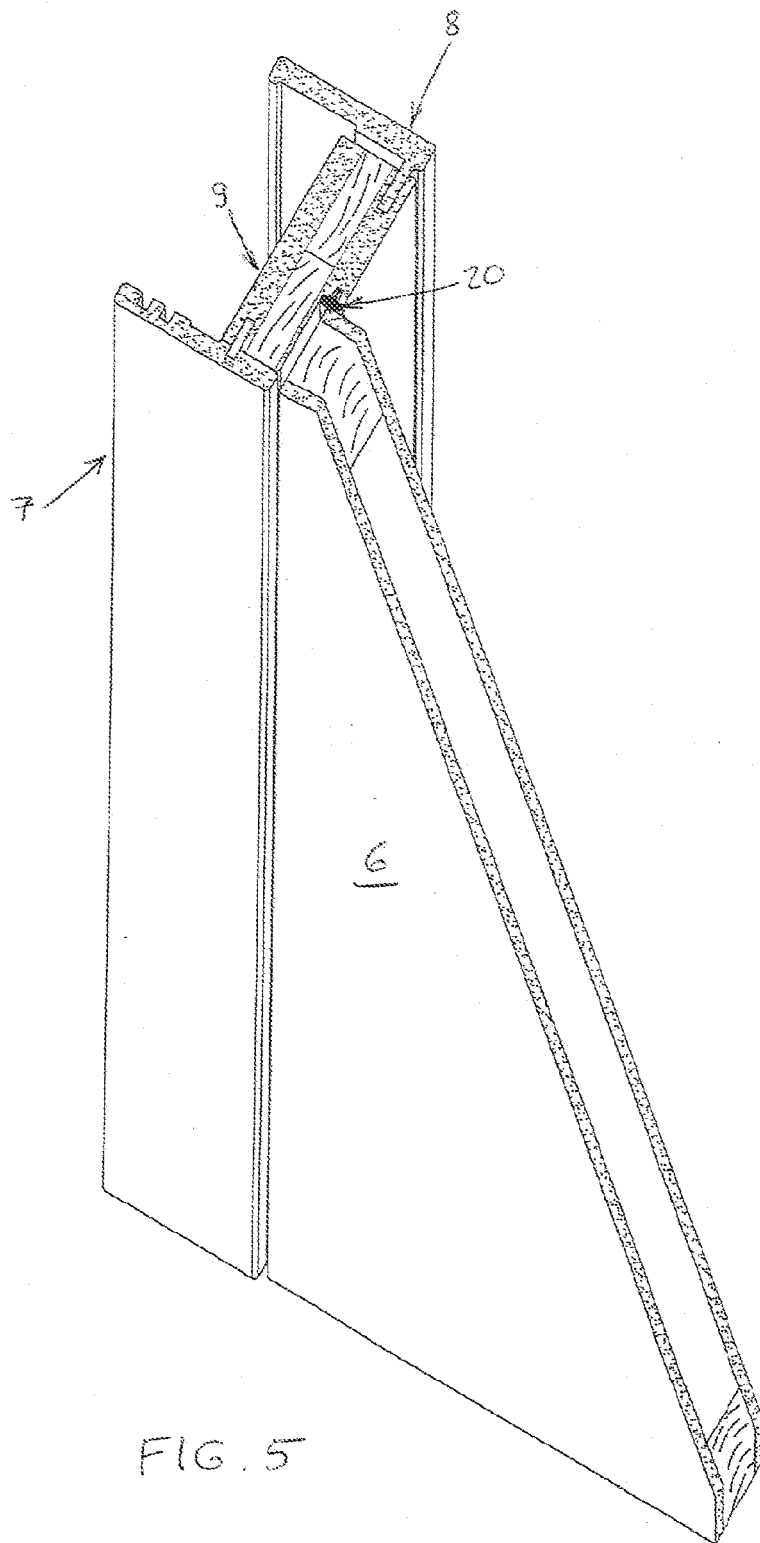
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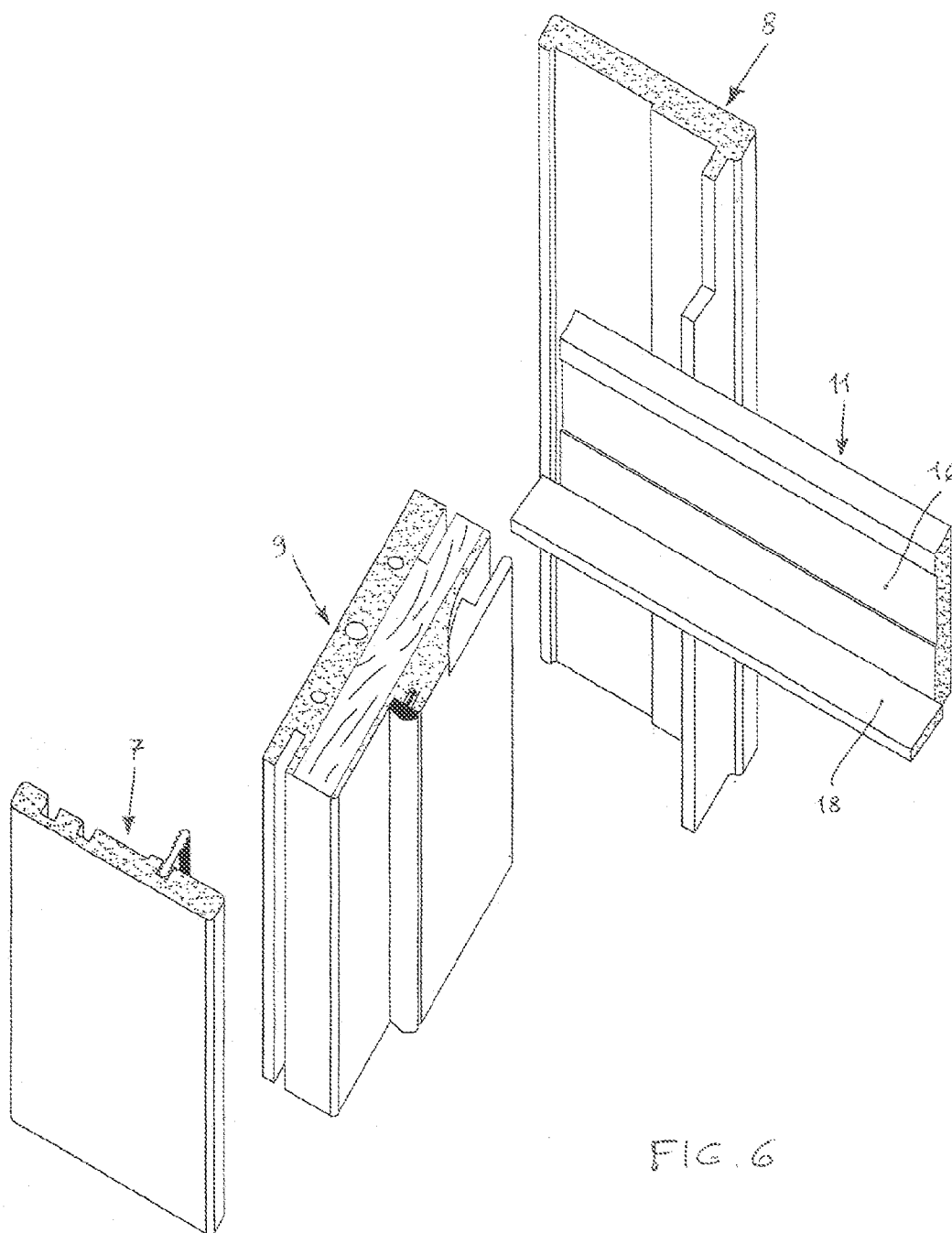


FIG. 6

FIG. 8

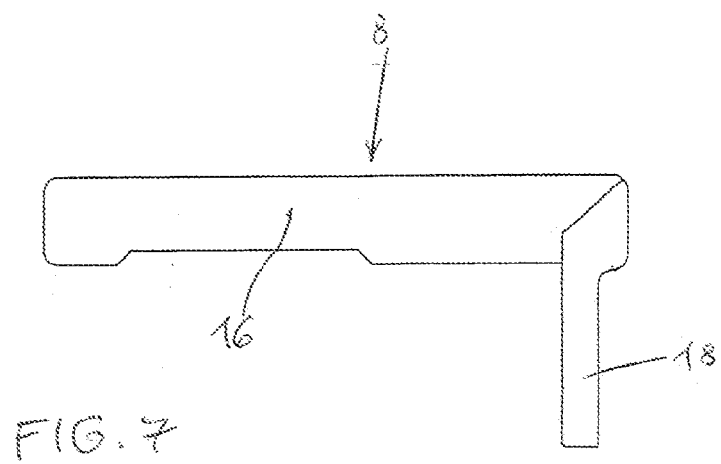
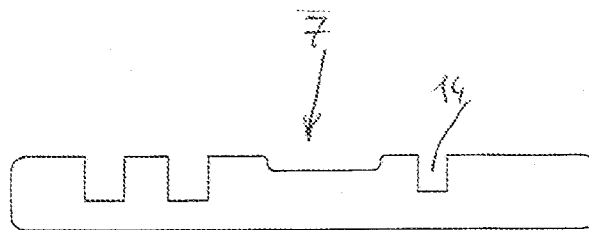


FIG. 7

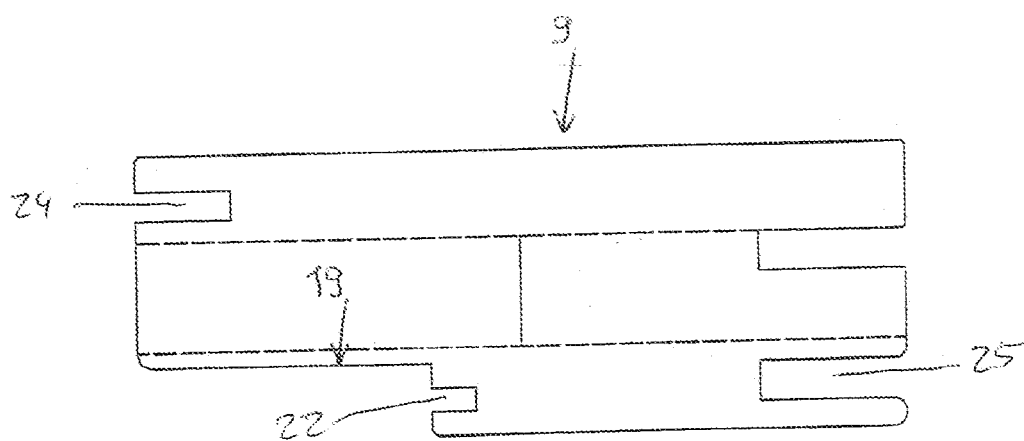


FIG. 9