

- 1 -

A DEVICE ADAPTED TO MOUNT INTO A WALL OPENING
A METAL JAMB OR FRAME, MORE PARTICULARLY
A DOOR JAMB

5 The present invention relates to a device adapted to mount
into a wall opening a metal jamb or frame, more particularly a door
jamb.

Up to the present, various devices are known for mounting
a jamb or frame into a wall opening by means of which a jamb, having
a substantially U-shaped cross-section may be so mounted against the
10 reveal of a wall opening that said jamb can be set into an accurately
vertical position. Such known devices frequently suffer from the disadv-
antage that they have a complicated construction, so that their mounting
is rather time-consuming.

According to the present invention there is proposed a
15 device adapted to mount into a wall opening a metal frame or jamb,
more particularly a door jamb, having a substantially U-shaped cross-
section, comprising a fixing plate to be mounted against the reveal of
the wall opening, an adjustable bracket connected to the fixing plate
in a slideable and fixable relation, the said bracket comprising means
20 for securing the frame thereto, wherein the fixing plate is formed by
an oblong strip-shaped plate extending over almost the entire width of
the reveal, and at each end having relatively short side flanges projecting
from the wall, each side flange having a bore hole, the adjustable
bracket having a U-shape with two legs embracing the wall in the
25 mounted position and being provided with slot-shaped openings for
adjustably mounting the bracket to the side flanges of the fixing plate,

the legs of the said bracket being provided with receiving members for receiving the frame to be mounted.

5 This type of construction has the advantage that the adjustable bracket can be easily mounted and positioned, so that the frame to be subsequently secured thereto assumes directly its proper position, the device being of inexpensive manufacture in view of its simplicity.

10 According to a preferred feature of the invention, the receiving members consist of an outwardly flanged lip formed on each free end of the legs and of outwardly directed pressed-in portions provided in the legs at a certain distance from each lip, so that an end flange of the frame to be mounted can be locked between the lip and the pressed-in portions.

15 Thus, the frame to be mounted can be pushed upon the adjustable bracket(s) as set until its (their) end flanges snap into the space between the lip and the pressed-in portions, the frame being tightly connected to the adjustable bracket due to its own resilient action.

20 The invention will be further explained with reference to the accompanying drawings, wherein :

Fig. 1 is a horizontal sectional view of a door jamb mounted by means of the device according to the invention, and

Fig. 2 is an exploded view of the device of Fig. 1.

5 Fig. 1 shows a wall 1 with a reveal 2 of a door opening. In the opening there is a jamb 3 provided for a door 4 and mounted by means of a device 5 located on the reveal 2. The jamb 3 has a substantially U-shaped cross-section and comprises end flanges directed towards one another.

10 As is particularly evident from Fig. 2, the device according to the invention consists of a fixing plate 6 which can be mounted on the reveal 2 of a wall opening by means of screws 7, and of a U-shape adjustable bracket 8 connected to the fixing plate 6 in a slideable and fixable manner.

15 The fixing plate 6 comprises an oblong strip-shaped element the length of which practically corresponds to the thickness of the wall 1, at each end having relatively short side flanges 9 projecting from the wall, and each flange being provided with a bore hole 10. The central portion of the
20 fixing plate is provided with two slot-shaped openings 11, 11' extending in the longitudinal direction of the plate for the screws 7. The fixing plate may also be provided with reinforcement ribs 12.

The U-shape adjustable bracket 8 likewise has the

form of a strip and consists of a body 13 and two side legs 14, embracing the wall in the mounted position. The said body 13 is provided with openings 15, 15' roughly corresponding to the openings 11, 11' in the fixing plate 6, so that the
5 screws 7 can be fitted without having to loosen the adjustable bracket from the fixing plate. The side legs 14 of the adjustable bracket 8 are provided on their free ends with an outwardly flanged lip 16. Both legs 14 are also provided with a slot-shaped opening 17 extending in the longitudinal
10 direction thereof, the surface along said opening being provided with a roughening 18 both on the outer and on the inner sides of the said legs. The outside portions of the flanges 9 of the fixing plate 6 which engage the inner side of the legs 14 are also provided with a corresponding roughening 19. The upper
15 and lower longitudinal edges of the adjusting bracket 8 comprise reinforcement ribs 20 extending over the entire length of the bracket. The end portions of these ribs form, in conjunction with the lips 16, the receiving members for the receipt of the end flanges of the frame 3 to be mounted.

20 Mounting the frame 3 proceeds in the following manner. Several fixing plates 6, properly spaced from one another, are secured to the reveal 2 of the wall opening by means of screws 7. Thereupon, the adjustable bracket(s) is or are connected
25 to the fixing plates 6, that is, secured thereto for instance by means of self-tapping screws 21 which each engage the side

flanges 9 and, successively pass through the slot 17 provided in the legs 14 and the bore hole 10 in the said flanges. Subsequently, the adjustable brackets of the various devices are properly positioned in relation to one another by means of the slots 17 and are then secured. The roughened portions 18, 19 ensure that the adjustable brackets are tightly secured in relation to the fixing plates, so that they cannot move when the jamb is being mounted. Thereafter, the frame is pushed over the adjustable bracket until the end flanges of the former snap into the space provided between the lip 16 and the end portions of the reinforcement ribs 20. Due to the resilient action of the frame itself, said end flanges remain solidly locked, thus precluding the need for additional fastening means.

Both the fixing plate 6 and the adjustable bracket 8 have a particularly simple construction and can be made from sheet iron in an easy and inexpensive manner.



-6-

CLAIMS

1. A device adapted to mount into a wall opening a metal frame or jamb, more particularly a door jamb, having a substantially U-shaped cross-section, comprising a fixing plate to be mounted against the reveal of the wall opening, 5 an adjustable bracket connected to the fixing plate in a slideable and fixable relation, the said bracket comprising means for securing the frame thereto, wherein the fixing plate is formed by an oblong strip-shaped plate extending over almost the entire width of the reveal, and at each 10 end having relatively short side flanges projecting from the wall, each side flange having a bore hole, the adjustable bracket having a U-shape with two legs embracing the wall in the mounted position and being provided with slot-shaped openings for adjustably mounting the bracket to the side flanges 15 of the fixing plate, the legs of the said bracket being provided with receiving members for receiving the frame to be mounted.

2. A device according to claim 1, wherein the receiving members consist of an outwardly flanged lip formed on each free end of the legs and of outwardly directed pressed- 20 in portions provided in the legs at a certain distance from each lip, so that an end flange of the frame to be mounted can be locked between the lip and the pressed-in portions.



3. A device according to claim 2, wherein the said pressed-in portions are formed by reinforcement ribs extending over almost the entire length of the adjustable bracket.

5 4. A device according to any one or several of the preceding claims, wherein the side legs of the adjustable bracket are provided with oblong slots extending over almost the entire length thereof, the surface area around said slots being provided with roughened portions both on
10 the inner and on the outer sides of the legs, the outer surface of the fixing plate flanges also being provided with roughened portions.

5. A device adapted to mount a metal frame or jamb into a wall opening substantially as hereinbefore
15 described with reference to and as illustrated in the accompanying drawings.
