ABSTRACT OF THE DISCLOSURE

A bracket for holding a down spout consisting of an apertured base plate, a body member having bendable tabs engaged in said apertures and a metal band for encircling said down spout held by said body member.

The principal object of the invention is the provision of an adjustable bracket for holding down spouts that may be quickly and easily applied to the down spouts and the supporting wall.

A further object of the invention is the provision of a bracket for holding down spouts including means permitting the one portion of the bracket to be offset with respect to the other.

A still further object of the invention is the provision of a bracket for holding down spouts arranged so that one portion of the bracket may be used horizontally or vertically, while the other portion remains horizontal and positioned around and about the down spout being held.

A still further object of the invention is the provision of a bracket for holding down spouts which may be inexpensively constructed from sheet metal easily assembled on the job and applied to a building wall, for example, to hold a down spout relative thereto.

The bracket for holding down spouts disclosed herein comprises an improvement in the art relating to such devices. Primarily, the roofing and spouting industry relies on the formation of a horizontal mounting bracket from an end portion of the down spout itself as occasioned by cutting a portion of the down spout adjacent the end thereof and flattening the cut portion, so that it lies adjacent the wall to which it is to be secured. This expedient works reasonably well, until it is necessary to move or adjust the down spout wherein the bracket usually tears away and is no longer usable. Various other proposals for mounting down spouts on building walls have been made and most of them have involved rather expensive, difficult constructions, both with respect to manufacture and installation.

The present invention relates to an improved bracket for holding a down spout which is very simple, can be made inexpensively, assembled and applied on the job quickly and easily.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being the intention to cover all changes and modifications of the example of the invention herein chosen for purposes of the disclosure, which do not constitute departures from the spirit and scope of the invention.

The invention is illustrated in the accompanying drawings wherein:

FIGURE 1 is a perspective view of a portion of a wall showing the down spout mounting bracket thereon, broken lines indicating the position of the down spout in the bracket.

FIGURE 2 is an enlarged vertical section on line 2—2 of FIGURE 1.

FIGURE 3 is a perspective view showing a modification in the base portion of the down spout mounting bracket.

FIGURE 4 is a perspective view showing a modified form of the bracket for holding down spouts; broken lines show the down spout therein.

FIGURE 5 is an enlarged vertical section on line 5—5 of FIGURE 4.

FIGURE 6 is a perspective view of a modified mounting bracket portion of the bracket seen in FIGURE 4.

FIGURE 7 is a composite view showing a plan and side view of a cross-shaped metal clip used with the modification illustrated in FIGURES 4 and 5.

FIGURE 8 is a horizontal section on line 8—8 of FIGURE 1.

By referring to the drawings, FIGURE 1 in particular, it will be seen that a portion of an exterior wall 10 is disclosed and that broken lines indicate a portion of a down spout 14, which is secured to the wall 10 by means of a bracket. The bracket comprises a base plate 21 having an aperture 13 at either end for the reception of fasteners 13 by which it is mounted to the wall 10 and having a central rivet 14 pivotally mounting a flanged body member 15 as best seen in FIGURE 2 of the drawings. The flanged body member 15 has oppositely disposed longitudinally extending flanges 16 on its upper and lower ends. The flanges extend inwardly toward one another sufficiently to engage the upper and lower portions of a metal band 17 which is movably positioned relative to the body member 15 and the oppositely disposed flanges 16 and held thereby. The metal band 17 is of a length sufficient to encircle the down spout 14 and one end of the band 17 has transversely spaced notches which permit the end portions to be turned inwardly toward one another. These notched end portions are shown in dotted lines in FIGURE 2 of the drawings and indicated by the numeral 18. They are particularly useful when they are engaged in cutaway areas 19 in the upper and lower sides of the other end of the band 17 as also best illustrated in FIGURE 2 of the drawings. The opposite ends of the band 17 thus have self-fastening configurations which enable the band to be positioned about the section of down spout 11 and clamped thereto by such self-fastening configurations, while the band itself is held in the body member 15 by the oppositely disposed flanges 16. The body member 15 being pivotally mounted by the rivet 14 to the base member 12 renders the entire device quite flexible and capable of desirable location on the wall 10 and with respect to the necessity of engaging the fasteners 13 therein as will occur to those skilled in the art.

Modifications of the constructions just illustrated will occur to those skilled in the art and one such modification is the formation of the base member 12 with offset end portions as illustrated in FIGURE 3 of the drawings. In FIGURE 3 the base member 12 is shown with offset end portions 12a and the body member 15 pivoted thereto in the same manner as the drawings heretofore described. The arrangement permits the spacing of the down spout relative to the wall 10.

Other modifications will occur to those skilled in the art and one such desirable modification is illustrated in FIGURES 4 and 5 wherein a wall 20 is shown with a base member 21 secured thereto by fasteners 22. The base member 21 has four slots therein, two of which are spaced transversely of the base member 21 and two of which are spaced longitudinally thereof as best seen in FIGURE 6 of the drawings. In FIGURES 4 and 5 of the drawings the upper and lower or transversely spaced slots are indicated by the numeral 23. A cross shaped metal clip 24 is arranged with two of its end portions bent at right angles and engaged in a pair of the slots 23 as best shown in FIGURE 5 where the end portions indicated at 25 are bent as to mount the cross shaped clip 24 to the base member 21 and provide space therebetween.
for the down spout mounting band 26 which is formed exactly as the down spout mounting band 17 heretofore described in connection with FIGURES 1 and 2 of the drawings. The band 26 has the same end configurations enabling self-fastening when it is positioned about the down spout which is shown in broken lines in FIGURE 4 and indicated by the numeral 27. It will thus be seen that as illustrated in FIGURES 4 and 5 the base member 21 is horizontal, and it will be observed that by reason of the extra pair of slots 23 the metal clip 24 can be positioned so that passageway for the band 26 is vertically disposed rather than horizontally whereupon the fasteners 22 and the ends of the base member 21 may be positioned behind the down spout 27 or in vertical position relative to the horizontally disposed metal band 26 which encircles the down spout 27.

Modifications of this construction will occur to those skilled in the art and offsetting the end portions of the base member 21 may be easily performed to space the device with respect to a supporting surface. A perspective view in FIGURE 6 illustrates this with the offset end portions indicated by the numerals 21a. In FIGURE 7 of the drawings a plan view shows the cross-shaped metal clip 24 and an end view thereof shows the same clip 24 with its upper and lower flanges 25 bent at right angles to the body portions of 24. These are then positioned through the slots 23 and bent inwardly toward one another as heretofore described and seen, as for example, in FIGURE 5 of the drawings. In FIGURE 8 of the drawings a top plan view of the preferred form of the invention as seen in FIGURE 1 of the drawings may be seen and it will be observed that the band 17 is shown positioned through the area of the body member 15 defined by the upper and lower longitudinally extending flanges 16 thereof and then positioned about the down spout 11 with the self-fastening configurations 17, 18 and 19 shown in fastened arrangements. The portions 18 are turned inwardly to form upper and lower flanges engaged on the tongue like end portion of the band 17 which is indicated by the numeral 17A in FIGURE 8 and the same is bent backwardly upon itself as seen in the solid lines in FIGURE 8 of the drawings. Thus the bracket for holding down spouts is adaptable to any size and shape or diameter or exterior configuration of down spout and may be tailored on the spot by the workman using tin snips or the like to properly position the end configurations of the band 17 relative to the actual size of the down spout being mounted. The bracket for holding down spouts will thus be seen to be simple in construction, easy to mount, capable of being removed and replaced when desired and will therefore be seen to meet several objects of the invention.

Having thus described my invention, what I claim is:

1. A bracket for holding down spouts consisting of an apertured base plate, a body member having bendable tabs for engaging said apertures, and secured to said base plate thereby, a down spout encircling band having fastening configurations on its opposite ends, said body member arranged to engage a portion of said down spout encircling band so as to secure said band to said base plate.

2. The bracket for holding down spouts as set forth in claim 1 and wherein said body member is rectangular and said bendable tabs are positioned at right angles to said body member.

References Cited

UNITED STATES PATENTS

441,428 11/1890 Mathin ———— 248—74
1,159,821 11/1915 Barger ———— 248—315
2,459,307 1/1949 Churchill ———— 248—74
2,634,940 4/1953 Karty et al. ———— 248—231

FOREIGN PATENTS

225,114 11/1924 Great Britain.

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