March 3, 1964 S. A. MENDOLA 3,123,352

PLUMB STICK AND GUIDE FOR CORNER BEADING

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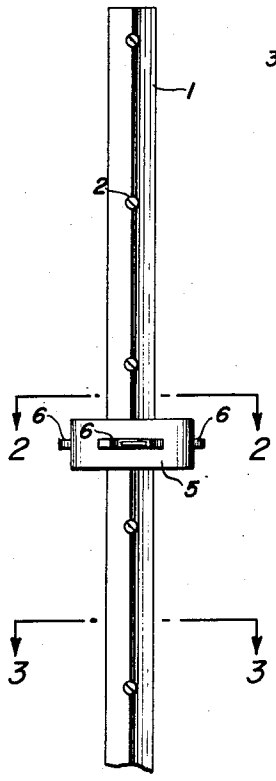


Fig. 1

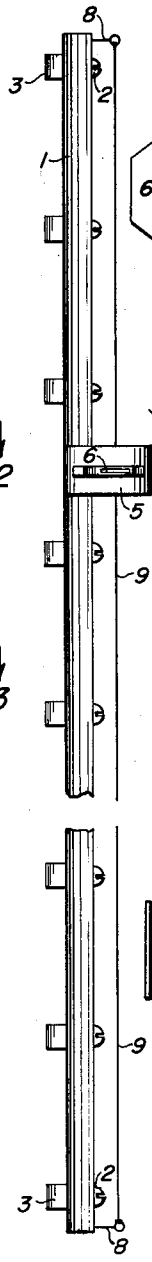
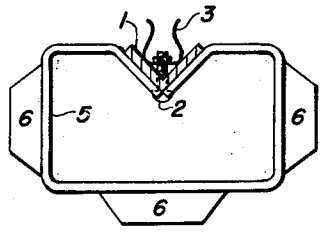


Fig. 5

Fig. 2



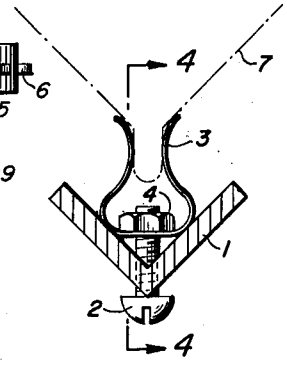


Fig. 3

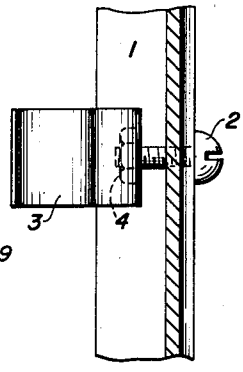


Fig. 4

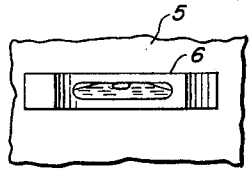


Fig. 6

INVENTOR

Salvatore A. Mendola

BY Jack Schuman

ATTORNEY

United States Patent Office

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PLUMB STICK AND GUIDE FOR CORNER BEADING

Salvatore A. Mendola, 813 Chestnut St., Bronx 67, N.Y.

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This invention relates to a plumb stick and guide for corner beading.

In constructing plaster walls, as is well-known, the plaster is trowelled onto lath, which latter is an open grid of metal secured to the studding of the building At exterior corners, the lath is applied to the studding as a corner beading comprising two sections of lath meeting at substantially right angles at a nose or bead.

In securing this corner beading to the corner studding, considerable care must be taken to insure that the corner beading is installed in a perfectly plumb or vertical position, and also that the corner beading is straight along its entire length, and not bowed or crimped. Such care is necessary in order that a high-quality plastering job may be obtained, as the plaster lines follow those of the lath beneath, and an out-of-plumb corner bead or a bowed corner bead will show in the finished product.

Heretofore, the installation of straight, plumb corner beading was a tedious time-consuming task. A skilled workman was required to make two separate plumbs of the corner bead, in two vertical planes, and was then required to check the corner bead for straightness and to align the same where necessary, and then to recheck for plumb. Considering working conditions at an average construction site, more often than not the corner bead was subjected to some abuse and required straightening when installed. In view of the relatively high hourly rates for skilled workers in the construction industry, it seems apparent that any device which expedites the construction operation satisfies, at least in part, a real need.

I have invented a plumb stick and guide for the installation of the aforementioned corner beading, which invention enables a single workman to quickly install a straight corner beading in plumb position. In actual trials, I have found that, in one day the average workman can easily install with my invention, several times the number of lineal feet of corner beading that a skilled workman can install using conventional methods.

Briefly, my invention comprises a rigid angle of length slightly less than the length of the corner beading to be installed, a number of spring clips secured to the interior corner of the angle and spaced therealong, the clips being adapted to grasp the nose of the corner beading, and levels in two directions secured to a convenient portion of the angle, as at eye-level.

One of the objects of my invention is to provide a plumb stick whereby corner beading can readily be installed in true plumb position.

Another of the objects of my invention is to provide a guide whereby corner beading can readily be installed in a perfectly straight line without being bowed or crimped.

A further object of my invention is to provide a plumb stick and guide whereby corner beading can readily be installed in a straight plumb position.

Still a further object of my invention is to provide a plumb stick and guide for corner beading whereby the said device can readily be removed from the corner beading after the latter has been secured to the corner studding.

Yet another object of my invention is to provide means for securing the levels to the plumb stick and corner guide, which means also furnishes a convenient handle to grip the plumb stick and corner guide.

Other and further objects of my invention will become apparent during the course of the following description.

Referring now to the drawing, wherein like numerals represent like parts in the several views:

FIGURE 1 represents a front view in elevation of the plumb stick and corner guide.

FIGURE 2 represents an enlarged section in plan, taken along the line 2—2 of FIGURE 1.

FIGURE 3 represents an enlarged section in plan, taken along the line 3—3 of FIGURE 1, showing the corner beading in phantom.

FIGURE 4 represents an enlarged section in elevation, taken along the line 4—4 of FIGURE 2.

FIGURE 5 represents a side view in elevation of the plumb stick and corner guide, as seen from the left of FIGURE 1, showing a modification of my invention.

FIGURE 6 is an enlarged partial view in elevation of the bracket, showing more clearly one of the levels.

The plumb stick and guide is seen as comprising rigid angle member **1** which, in the preferred embodiment, may be slightly less than the length of the corner beading that is to be installed. In typical construction today, the length of the corner bead may approximate some eight feet.

Screws **2** are spaced along the length of angle member **1**, as shown in FIGURE 1, and extend through the vertex of the said angle **1** and through spring clips **3**, the latter being securely held in place against the inner walls of angle member **1** by means of nuts **4** bearing against the bases of the spring clips **3** and threaded to screws **2**.

The particular method disclosed herein of securing spring clips **3** to the angle member **1** is to be understood as illustrative only. Other equally good methods of securing spring clips **3** to the angle member **1** will immediately occur to those familiar with the art.

Bracket **5** is secured to angle member **1** at a convenient elevation, preferably adjacent the eye level. As shown, bracket **5** is secured to the exterior sides of the angle member **1**, and provides faces in at least two perpendicular vertical planes to which levels **6** are fastened. For convenience, levels **6** are provided at both sides of the corner beading **7**, as well as in front thereof, permitting the said corner beading **7** to be plumbed by a workman from either side thereof.

Bracket **5**, as seen in FIGURE 2, is open, and thereby provides a convenient grip for a workman.

In the use of my invention, the workman first applies the spring clips **3** to the nose of the corner beading **7**. As the spring clips **3** are rigidly held in alignment by angle member **1**, it will be seen that the corner beading **7** when gripped by the spring clips **3** will also be in alignment and straight for substantially the entire length thereof.

The workman then holds the plumb stick and guide, and the corner beading **7** gripped thereby, against the corner studding, the corner beading **7** being adjacent the said corner studding. As he checks the levels for plumb and adjusts the plumb stick and guide accordingly, he nails the corner beading **7** to the corner studding. When the corner beading **7** is securely nailed to the studding, the workman pulls the plumb stick and guide towards him, preferably by means of the bracket **5**, and the spring clips **3** release their grasp on the nose of the corner beading **7**, the latter being left in a straight plumb position on the corner studding.

In the modification of my invention shown in FIGURE 5, eyelets **8** are secured, as by welding or other suitable means, to the upper and lower ends of angle member **1**. String **9** is stretched taut and secured to the said eyelets **8** so as to extend parallel to angle member **1**, being spaced therefrom a small distance, approximately ¼–½ inch from the vertex of angle member **1** or from

the heads of screws 2, the said string extending through the area bounded by bracket 5.

The purpose of string 9 is to indicate, visually, any deviation from a straight line of the angle member 1.

Sometimes the corner to which the beading is to be secured is not perfectly straight, being bowed inwardly or outwardly relative to the workman. When angle member 1 is of substantial length, it may bend due to its inherent flexibility, during the installation of the beading 7, thereby permitting a similar bend in the said beading 7. The workman need only eye string 9 in relation to angle member 1 or in relation to the heads of screws 2, and can immediately detect any flexing of the angle member 1.

In using the modification of FIGURE 5, the workman, in addition to checking the levels 6 for plumb while installing the corner beading 7, also takes care during the said installation to see that string 9 remains taut and parallel to the angle member 1.

While I have shown the best embodiments of my invention now known to me, I do not wish to be limited to the exact structures shown and described herein, but may use such modifications or equivalents thereof as are pointed out in the specification or as are embraced within the scope of the claims herein.

I claim:

1. A plumb stick and guide for installing corner beading, comprising:

(*a*) an elongated member adapted to extend lengthwise of the corner beading for substantially the length of said corner beading,

(*b*) a plurality of gripping means spaced along the length of said member and secured thereto, each of said gripping means being releasably engageable with said corner beading, and

(*c*) string means secured at both ends to said member to extend taut between the ends of said member in spaced parallel relation thereto.

2. A plumb stick and guide for installing corner beading, comprising:

(*a*) an elongated member adapted to extend lengthwise of the corner beading for substantially the length of said corner beading,

(*b*) a plurality of gripping means spaced along the length of said member and secured thereto, each of said gripping means being releasably engageable with said corner beading,

(*c*) level indicator means secured to said member, and

(*d*) string means secured at both ends to said member to extend taut between the ends of said member in spaced parallel relation thereto.

3. A plumb stick and guide for installing corner beading, comprising:

(*a*) an elongated member adapted to extend lengthwise of the corner beading for substantially the length of said corner beading,

(*b*) a plurality of spring clips secured to said member adjacent the ends thereof and at spaced points intermediate the ends thereof, said spring clips being arranged in alignment, said spring clips being releasably engageable with said corner beading,

(*c*) string means secured at both ends to said member to extend taut between the ends of said member in spaced parallel relation thereto,

(*d*) bracket means secured to said member and encircling said string means, said bracket means defining a hand grip, and

(*e*) level indicator means secured to said bracket means.

4. A plumb stick and guide for installing corner beading, comprising:

(*a*) an angle member adapted to extend lengthwise of the corner beading for substantially the length of said corner beading,

(*b*) an interior surface, an exterior surface and a vertex on said angle member,

(*c*) a plurality of spring clips secured to the interior surface of said angle member and spaced therealong, said spring clips being arranged in alignment, said spring clips being releasably engageable with said corner beading,

(*d*) string means secured at both ends to said angle member to extent taut between the ends of said angle member adjacent the exterior surface thereof and in spaced parallel relation to the vertex thereof, and

(*e*) level indicator means secured to said angle member.

5. A plumb stick and guide for installing corner beading, comprising:

(*a*) an angle member adapted to extend lengthwise of the corner beading for substantially the length of said corner beading,

(*b*) an interior surface, an exterior surface and a vertex on said angle member,

(*c*) a plurality of spring clips secured to the interior surface of said angle member and spaced therealong, said spring clips being arranged in alignment, said spring clips being releasably engageable with said corner beading,

(*d*) string means secured at both ends to said angle member to extend taut between the ends of said angle member adjacent the exterior surface thereof and in spaced parallel relation to the vertex thereof,

(*e*) bracket means secured to said angle member and encircling said string means, said bracket means defining a hand grip, and

(*f*) level indicator means secured to said bracket means

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