July 22, 1952 J. H. KROLL 2,603,875

LINE HOLDER FOR MASONS

Filed June 20, 1949

FIG. 1.

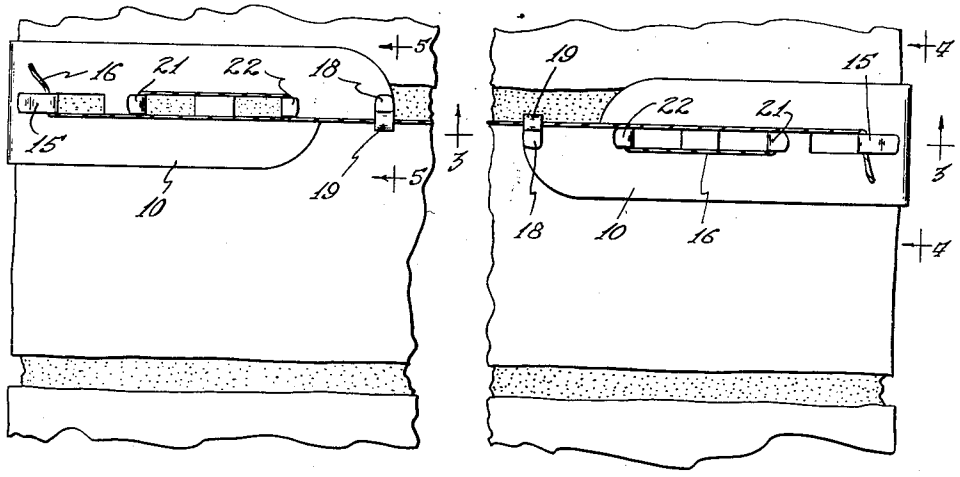


FIG. 2.

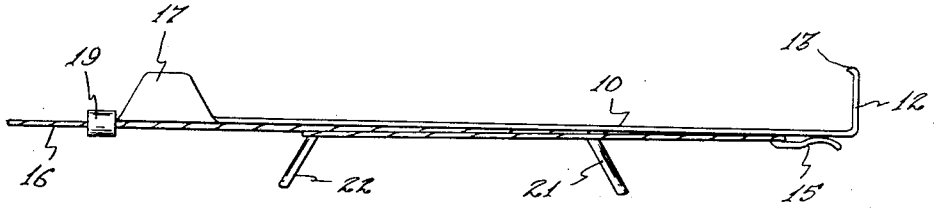


FIG. 3.

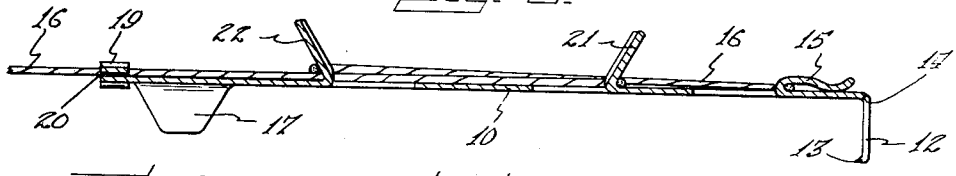


FIG. 4.

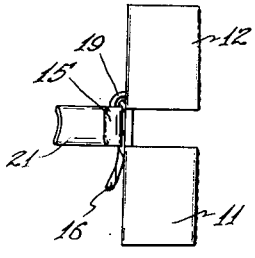


FIG. 5.

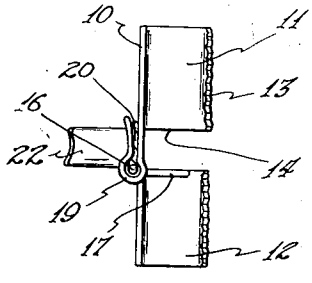
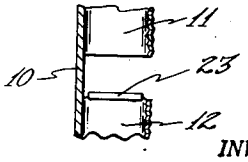


FIG. 6.



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Patented July 22, 1952

2,603,875

UNITED STATES PATENT OFFICE

2,603,875

LINE HOLDER FOR MASONS

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Application June 20, 1949, Serial No. 100,125

4 Claims. (Cl. 33—85)

1

My present invention relates to improvements in a line holder for masons.

It is the principal object of my invention to provide a device for holding the ends of the line that is stretched between the corner portions of a brick or building block to guide the mason in laying the successive layers between the corners. To be effective for the masons a device of this character should be light and compact. It should also be easily applied to the corner of a brick or block and insure alignment of the line with the mortar course between bricks.

Mor particularly it is the purpose of my invention to provide a line anchor for masons which embodies in a single metal stamping, anchoring teeth, a guide plate, a mortar line guide tongue, a line receiving eye and a line attaching means, all arranged so that the holder can be laid against the masonry wall at the corner of a brick or block where it will hold firmly enough to retain the line and will guide the line along the top of the brick or block.

In a preferred embodiment of my invention I utilize a small metal stamping which can be readily carried in the pocket and which is relatively inexpensive so that if a mason should lose one the cost of replacement is minor. The construction is such that it is easy to attach the line to it and draw the line taut.

The nature and advantages of my invention will appear more fully from the following description and the accompanying drawings illustrating a preferred form of the invention. The drawings and description are illustrative only however, and should not be considered as limiting the invention except insofar as it is limited by the claims.

In the drawings:

Figure 1 is a somewhat diagrammatic view illustrating my invention as applied to opposite corners of a building wall to stretch the mason's guide line across the intervening space;

Figure 2 is an enlarged plan view of one of the line holders;

Figure 3 is a sectional view taken on the line 3—3 of Figure 1;

Figure 4 is a view taken on the line 4—4 of Figure 1;

Figure 5 is a view taken on the line 5—5 of Figure 1; and

Figure 6 is a fragmentary sectional view illustrating a slightly modified structure.

Referring now to the drawings, my improved invention utilizes a metal plate 10 and provides the necessary gripping fingers 11 and 12 by bending a portion of the plate at one end thereof at right angles to the plate and providing teeth 13 directed parallel to the plate at the ends of the fingers 11 and 12. The fingers 11 and 12 are preferably separated by a cut out at 14.

2

Immediately adjacent to the fingers 11 and 12 a tongue 15 is struck out of the plate and bent over as illustrated best in Figure 3, to provide an anchoring slot for the line 16.

Near the other end of the plate 10 and in line with the inner edge of the portion 12, I provide a guide rib 17 by turning a portion of the plate 10 at right angles to the main body of the plate and at right angles to the portions 11 and 12. This guide rib 17 is tapered. Its function is to rest on the top surface of the brick and extend in to the mortar space so as to support the line guiding end of the plate 10 at the right level. A small tongue 18 is provided at the end of the plate 10 adjacent to the rib 17. This tongue 18 is bent to form an eye 19 with a slot 20 between the tongue and the plate 10 so that the line 16 can be inserted into the eye 19 with ease.

Since the line has to be drawn quite taut in order to function as a good guide, provide means on the plate 10 for wrapping the line upon itself before it is secured beneath the tongue 15. This means comprises two lugs 21 and 22 which are struck up from the material of the plate in alignment with the eye 19 and the tongue 15. Preferably these lugs 21 and 22 are rounded transversely so as to avoid a tendency to cut the line 16.

I do not find it necessary to provide any guide rib on the plate 10 adjacent to the fingers 11 and 12 to align the plate with the top of the brick. The member 17 and the eye 19 are very close together so the corner engaging end of the plate 10 may be slightly up or slightly down with respect to the mortar line without any appreciable effect upon the positioning of the line 16. If better alignment of the plate 10 is needed I can provide this as shown in Figure 6 by forming a guide rib 23 from the portion 12. This rib 23 extends into the mortar space and serves to align the corner engaging end of the plate 10.

In using my device the mason attaches one end of his line to one of the plates 10 by hooking it over the tongue 15 and taking two or three turns around the lugs 21 and 22 and then snapping the line over the tongue 18 into the eye 19. He places this plate against the wall with the portions 11 and 12 hooking around the corner of the brick and the rib 17 resting on top of the brick with which he wants the line to serve as a guide. He

then extends the line to the opposite corner where he attaches another plate 10 as illustrated in Figure 1. He then passes the line over the tongue 18 into the eye 19 of this plate and draws the line taut by turning it over the lug 22. When the line is taut enough he wraps it around the lugs 21 and 22 for a few turns and secures it beneath the tongue 15. The line can be tightened at either end and can be shifted to higher levels very readily by simply moving the plates 10 upward as desired.

It is believed that the nature and advantages of my improved line holder will be apparent from the foregoing description. I am aware that line holders made of a single metal stamping have been proposed heretofore and an example of such a line holder is the Roberts Patent No. 847,824. My improved line holder however, provides a novel means for assuring its position with respect to the top of a brick and further provides a novel construction for guiding and securing the line thereon.

Having thus described my invention, I claim:

1. A line holder for masons, adapted to be laid against the masonry wall at the corner of a block, such as a brick, said holder comprising an elongated plate having gripping fingers at one end thereof extending out in a plane perpendicular to said plate and parallel to the shorter axis of said plate, said fingers having teeth thereon pointed in the direction that the plate extends from said end, a guide rib adjacent to the other end of the plate extending in a plane perpendicular to said plate and parallel to the longer axis of said plate, a tongue on said other end of the plate extending transversely of the plate and bent over the plate to form with the plate, an open guide eye on the opposite side of the plate from the guide rib and aligned with the rib, and a line anchoring member at the first named end of the plate aligned with the guide eye.

2. A line holder for masons, adapted to be laid against the masonry wall at the corner of a block, such as a brick, said holder comprising an elongated plate having gripping fingers at one end thereof extending out in a plane perpendicular to said plate and parallel to the shorter axis of said plate, said fingers having teeth thereon pointed in the direction that the plate extends from said end, a guide rib adjacent to the other end of the plate extending in a plane perpendicular to said plate and parallel to the longer axis of said plate, said plate having a line guide eye thereon, on the opposite side of the plate from said rib and at the same end and having a line anchor member thereon adjacent to the first named end of the plate.

3. A line holder for masons, adapted to be laid against the masonry wall at the corner of a block, such as a brick, said holder comprising an elongated plate having gripping fingers at one end thereof extending out in a plane perpendicular to said plate and parallel to the shorter axis of said plate, said fingers having teeth thereon pointed in the direction that the plate extends from said end, a guide rib adjacent to the other end of the plate extending in a plane perpendicular to said plate and parallel to the longer axis of said plate, said plate having a line guide eye thereon, on the opposite side of the plate from said rib and at the same end and spaced divergent lugs struck up from the plate intermediate its ends for winding the line thereon.

4. A line holder for masons, adapted to be laid against the masonry wall at the corner of a block, such as a brick, said holder comprising an elongated plate having gripping fingers at one end thereof extending out in a plane perpendicular to said plate and parallel to the shorter axis of said plate, said fingers having teeth thereon pointed in the direction that the plate extends from said end, a guide rib adjacent to the other end of the plate extending in a plane perpendicular to said plate and parallel to the longer axis of said plate, a tongue on said other end of the plate extending transversely of the plate and bent over the plate to form with the plate, an open guide eye on the opposite side of the plate from the guide rib and aligned with the rib, spaced divergent lugs projecting outwardly from the plate intermediate its ends for winding the line thereon, and a line anchoring member at the first named end of the plate aligned with the guide eye.

JOHN H. KROLL.

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