Aug. 14, 1928. 1,680,643

P. J. SCHNEIDER

BRICKLAYER'S TOOL

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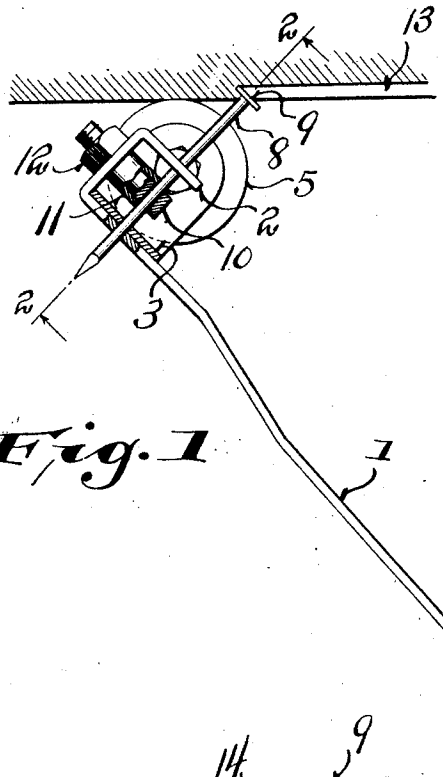


Fig. 1

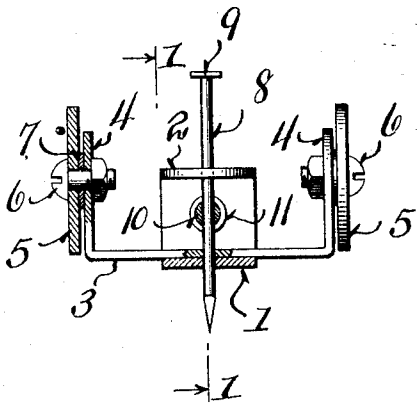


Fig. 2

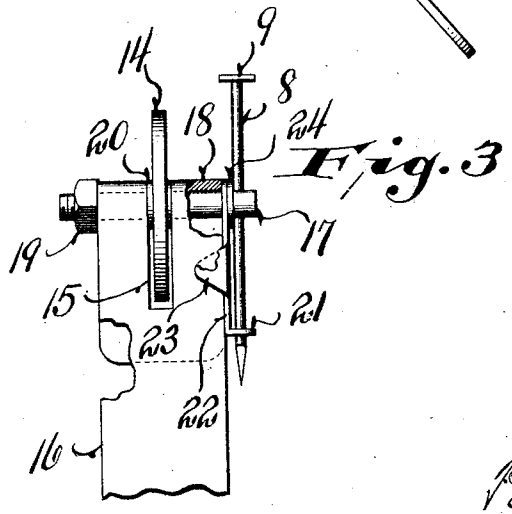


Fig. 3

Inventor:
Peter J. Schneider
By
Attorneys:

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UNITED STATES PATENT OFFICE.

PETER J. SCHNEIDER, OF EAU CLAIRE, WISCONSIN.

BRICKLAYER'S TOOL.

Application filed April 14, 1927. Serial No. 183,719.

This invention relates to a brick layer's tool.

Objects of this invention are to provide a brick layer's tool which is designed to be used for routing out the mortar between successive tiers of bricks, so that a groove of even depth throughout and of uniform characteristics from one end to the other may be most easily produced in a very rapid manner.

Further objects are to provide a novel form of routing tool in which the routing instrumentality itself is readily adjustable and removable and may, if desired, be rotated so as to present new faces whenever desired.

A further object and a more specific object of this invention is to provide a routing tool in which an ordinary nail may be used for the routing instrument itself, so that the routing instrument may be readily discarded and renewed with the greatest ease and with the least possible expense.

Embodiments of the invention are shown in the accompanying drawings in which:

Figure 1 is a transverse sectional view through the tool corresponding to a section on the line 1—1 of Figure 2, and showing the relative position of the tool and the wall;

Figure 2 is a sectional view on the line 2—2 of Figure 1 with, however, the upper lip of the tool holder shown in full;

Figure 3 is a view of a modified form of tool.

Referring to the drawings, it will be seen that the routing tool is provided with a main body portion consisting of a manipulating handle 1 preferably formed of strap iron and folded over to provide an overhanging lip 2. A transverse cradle-like portion 3 is also formed of similar material and secured rigidly to the main body strip, as shown in Figures 1 and 2, by brazing, riveting, or other means. This cradle-like member also forms a part of the body of the device and is provided with downturned arms 4 upon which small, disc-like rollers 5 are revolubly mounted by means of bolts 6, or in any other suitable manner, such rollers being preferably spaced from the legs 4 by the spacing washers 7. The body portion and the rollers therefor constitute a carriage which is easily pushed along the work, as indicated in Figure 1.

The routing tool proper consists of a central standard 8 provided with a disc-like head 9. In practice, it is contemplated employing a nail for this purpose, so that the routing tool may be discarded whenever desired, and a new one substituted without incurring a noticeable expense for renewal.

The routing tool 8 passes through apertures in the lip 2 and in the handle portion 1 and in the portion 3 of the cradle-like part, as shown in Figures 1 and 2.

It is adjustably locked in place by means of a bolt 10, such bolt being apertured for the reception of the stem or standard 8 and being provided with a spacing and gripping sleeve 11, as shown most clearly in Figure 1. Obviously, from the construction described, when the nut 12 is tightened the bolt or plunger 10 is drawn inwardly with reference to the sleeve 11 and thus binds the routing tool in its adjusted position.

In using the device, the wheels 5 are positioned on opposite sides of the mortar line and the device is pushed along the wall. The head 9 of the tool scoops out a semi-circular or rounded channel 13 in the wall, as shown in Figure 1, and it is to be noted that this channel is of uniform contour from one end to the other. Further, it is apparent that the successive channels between the successive tiers of bricks will be duplicates.

In reference to Figure 3, it will be noted that a tool has been provided which is equipped with a single wheel 14 carried in a slotted portion 15 of the body portion or handle 16, such body portion being looped around and brazed, soldered, or otherwise secured. A combination pintle bolt and locking plunger 17 passes through the rounded outer part 18 of the folded body portion, as shown in Figure 3, and the one end is threaded and provided with a nut 19. The other end is apertured for the reception of the tool stem 8. Preferably, spacing washers 20 are positioned on opposite sides of the wheel 14, so that it will run clear of the sides of the slot 15. The stem 8 of the routing tool is also guided by means of an apertured ear 21 formed on an auxil-

iary end plate 22. This auxiliary end plate is apertured for the reception of the bolt or plunger 17 and is provided with a pair of ears 23 folded over on opposite sides of the body portion, as shown in Figure 3. Preferably, a spacing washer 24 is positioned between the stem 8 of the routing tool and the plate 22.

The last described form of the invention is particularly useful where it is necessary to work close to a ledge or other overhanging part. Under these conditions, the double wheeled tool shown in Figures 1 and 2 could not be used as the routing head, could not be located at the mortar line. However, the form shown in Figure 3 could be used, as the routing head is located at the extreme side of the device.

It is to be noted that in each form of the invention, a bearing portion is provided through which the locking plunger slides, so that the routing instrumentality may be passed through the locking plunger and drawn tightly against the bearing portion.

It will be seen that this invention provides a very ready means for routing out the mortar between successive tiers of brick, and it will be noted further that the device may be most easily operated to produce an accurately formed, even channel or groove in the mortar.

Further, it will be noted that by the use of a nail as the routing instrumentality itself, the utmost freedom with respect to renewals may be had, as the nails are always available around houses or buildings in the process of construction and, consequently, it is not necessary for the brick-layer to carry a supply of specially formed routing instrumentalities with him.

Although the invention has been described in considerable detail, such description is intended as illustrative rather than limiting as the invention may be variously embodied and as the scope of such invention is to be determined as claimed.

I claim:

1. A routing tool comprising a carriage-like body portion provided with a supporting wheel and a projecting manipulating handle, a bearing portion carried by said carriage-like body portion, a plunger slidably mounted in said bearing portion and having an aperture therethrough, a clamping nut threaded upon said plunger, a routing instrumentality provided with an elongated shank passing through the aperture in said plunger and binding against said bearing portion and having an enlarged flat disc-like head, said routing instrumentality being adjustable along its axis and also adjustable to permit turning thereof to present a new face to the work.

2. A routing tool comprising a carriage-like body portion provided with a supporting wheel and a manipulating handle and having an apertured ear, a bearing portion carried by said body portion, a locking plunger slidably mounted within said bearing portion and having an aperture therethrough, a clamping nut threaded upon said plunger, a routing instrumentality having an elongated shank passing through the apertured ear and through the aperture in said locking plunger, said instrumentality having an enlarged head.

3. A routing tool comprising a carriage-like body portion provided with a projecting manipulating handle, a supporting wheel for said body portion, said body portion having a bearing member, a clamping plunger passing through said bearing member, and having an aperture therethrough adjacent said bearing member, a clamping nut threaded upon said plunger and bearing against the body portion and adapted to draw said plunger into said bearing portion, and a nail passing through the aperture in said plunger and gripped against said bearing portion with the head of the nail arranged in spaced relation to the body portion.

4. A routing tool comprising a body portion having revoluble supporting means and having a handle, said body portion having an aperture, a plunger slidably passing through said aperture and having a transverse aperture at one end and a threaded portion at the other end, a nut screwed upon said threaded portion and bearing against said body portion, a sleeve surrounding said plunger, a routing tool having a shank passing through the aperture in said plunger and held against said sleeve when said nut is tightened, and a pair of spaced arms carried by said body portion and having apertures through which said shank passes.

In testimony that I claim the foregoing I have hereunto set my hand at Eau Claire, in the county of Eau Claire and State of Wisconsin.

PETER J. SCHNEIDER.