G. E. NOBLE.

COMBINED CURB AND GUTTER FINISHING TOOL.

APPLICATION FILED JULY 1, 1920.

1,401,487.

Patented Dec. 27, 1921.

2 SHEETS—SHEET 1.

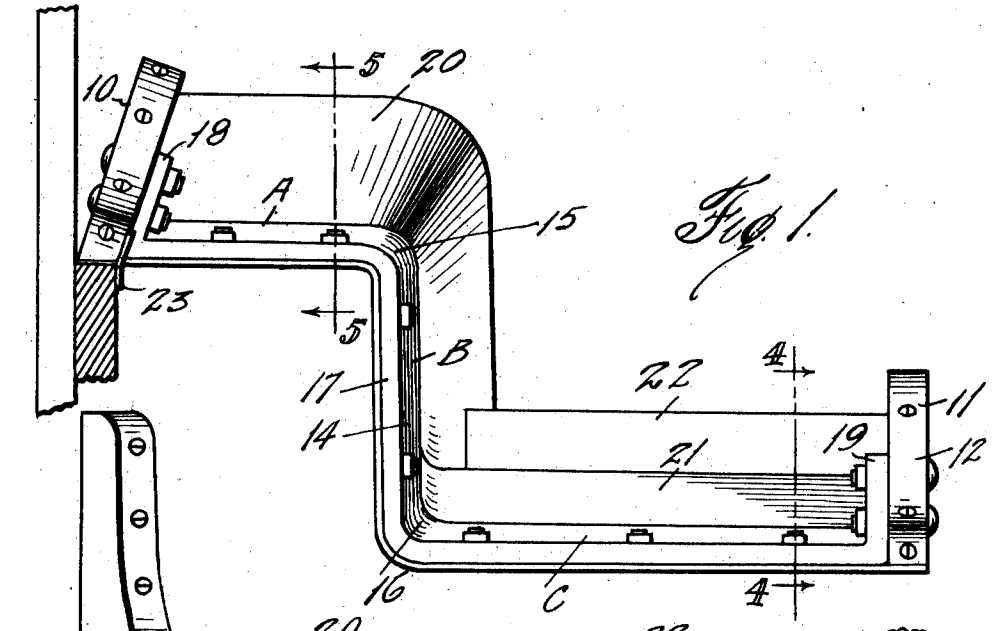


Fig. 1.

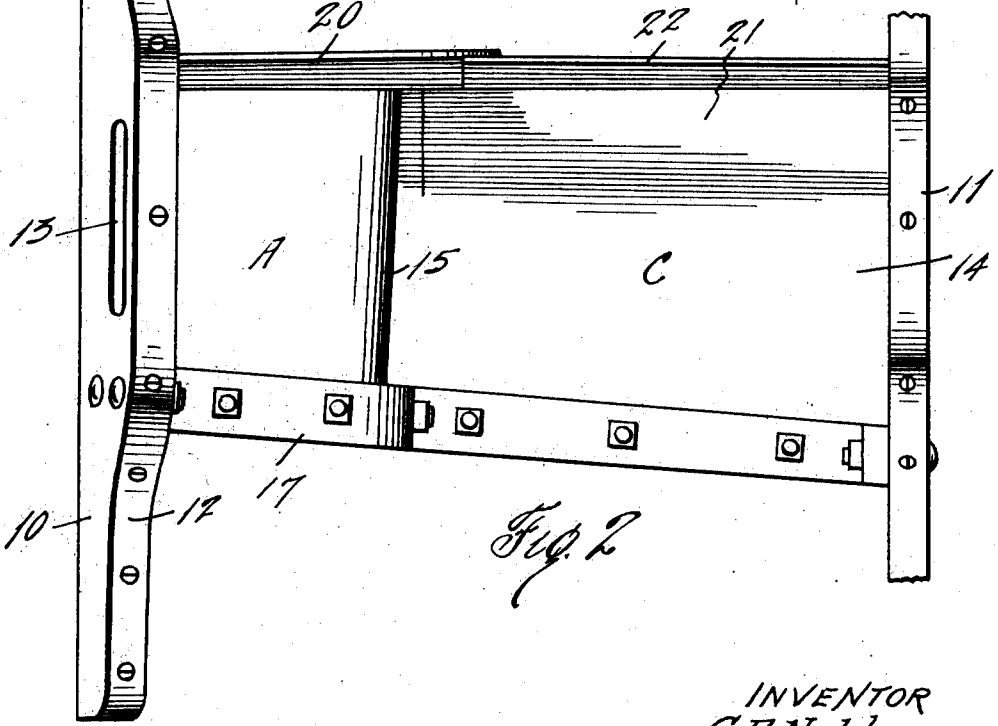


Fig. 2.

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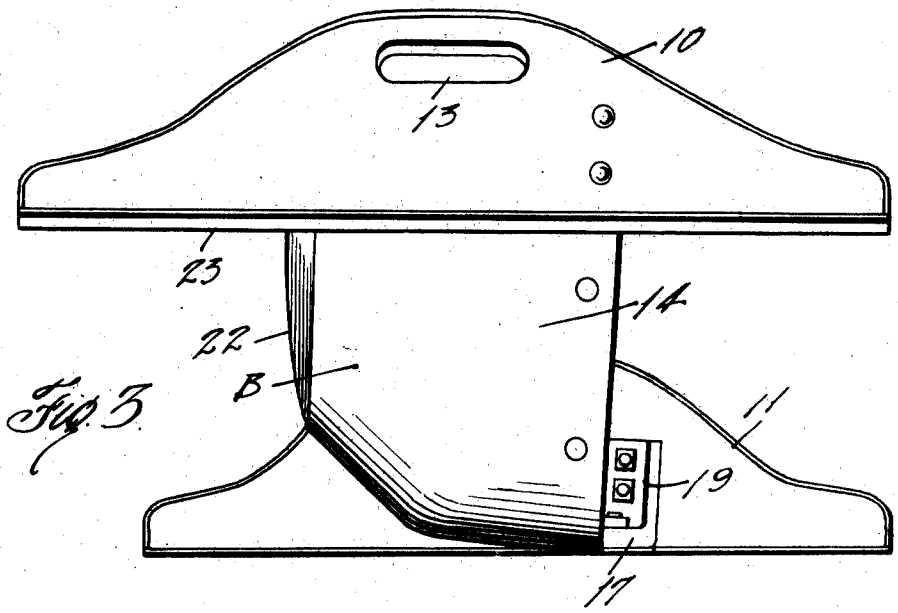


Fig. 3.

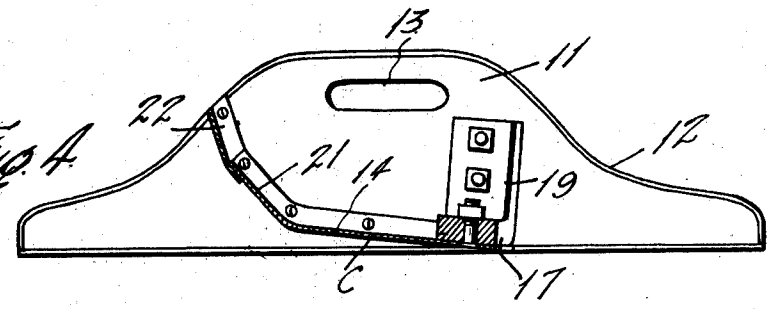


Fig. 4.

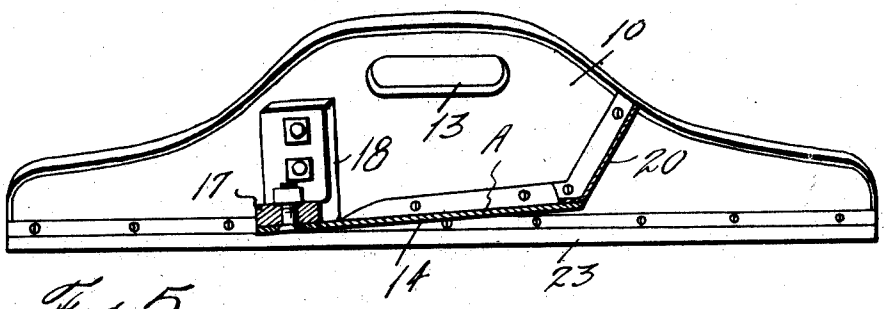


Fig. 5.

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GUY E. NOBLE, OF DALLAS, TEXAS.

COMBINED CURB AND GUTTER FINISHING TOOL.

1,401,487. Specification of Letters Patent. Patented Dec. 27, 1921.

Application filed July 1, 1920. Serial No. 393,309.

To all whom it may concern:

Be it known that I, GUY E. NOBLE, a citizen of the United States, residing at Dallas, in the county of Dallas and State of Texas, have invented certain new and useful Improvements in Combined Curb and Gutter Finishing Tools, of which the following is a specification.

This invention relates to improvements in combined curb and gutter finishing tools.

The purpose of the invention is to provide a hand tool for finishing concrete curbs and gutters, by the use of which the work is shaped and troweled and the job completed without the necessity of hand troweling. A further purpose is to provide a tool that will plaster and finish the curb and gutter.

In carrying out the invention a tool or device is provided which has side members having runners along their lower edges and hand grips at their upper central positions. A beveling and plastering member extends transversely between the side members and includes such inclined and angularly disposed portions as to properly shape and finish the curb and gutter as the tool is moved forward. A particular feature is the provision of means for carrying an ample mass of concrete ahead of the tool, whereby a surplus is always in advance of the work and the chance depressions due to lack of material avoided.

The invention will be more readily understood from a reading of the following specification and by reference to the accompanying drawings, in which an example of the invention is shown, and wherein:

Figure 1 is a rear elevation of a tool constructed in accordance with my invention,

Fig. 2 is a plan view of the same,

Fig. 3 is a perspective view showing the underside of the same,

Fig. 4 is a cross sectional view on the line 4—4 of Fig. 1, and

Fig. 5 is a cross sectional view on the line 5—5 of Fig. 1.

In the drawings the numeral 10 designates an inner or curb side member and 11, an outer or gutter side member. These members are elongated and extend longitudinally of the tool. The lower edges of the members constitute runners on which the tool travels. The curb member is inclined outwardly so as to space it from the concrete form. Each member has its upper edges and ends protected by a binding strip of metal 12; while at its center it has a slot 13 whereby a hand grip is formed.

A transverse plastering sheet 14 extends between the members and angularly bent to form a curb topping portion A, a curb facing portion B, and a gutter surfacing portion C. The portions A, and C, are substantially horizontal with the portion A above the portion C, the portion B, being vertical and connecting the other portions. The intersection between the curb topping and facing portions is rounded into a shoulder 15; while the intersection between the portions B and C is rounded to form a fillet 16.

It is pointed out that the portions A and C are inclined upwardly and forwardly and the portion B is directed outwardly with relation to the curb member 10. This gives to the sheet 14 a rearward bevel. A transverse brace bar 17 conforming to the contour of the sheet 14 at the rear end of the latter, is fastened to the upper side of said sheet. The bar has an inclined bracket 18 at one end bolted to the member 10 and an upright bracket 19 at its opposite end bolted to the gutter member 11. In order that the bar may rest in contact with all of the portions of the sheet, it is necessary to dispose it at an angle to the transverse axis of the tool.

At the front of the sheet a plastering flange or extension 20 is bent up from the portions A and B. The forward part of the portion C is bent upwardly to form an inclined plastering shoe 21 and in front of this shoe a plastering flange 22 is disposed contiguous to the flange 20. The purpose of these flanges is to crowd a surplus of plastic material ahead of the sheet 14 and thus maintain a supply for forming and finishing the curb and gutter. A guide plate or strip 23 depends from the inner side of the curb member 10 and is adapted to engage the form on which the tool is supported.

In using the tool the concrete is filled in the form and the curb and gutter "roughed in" in the usual manner. The finishing concrete, which is of a much finer and smoother mixture is deposited on the rough work in front of the tool, which has been placed on the edges of the curb and gutter from boards. The operator stoops over and grasps the members 10 and 11 by means of the slots 13. By sliding the tool forwardly the flanges 20 and 22 are brought into con-

tact with the mass of finishing concrete. Owing to the beveled form of the sheet 14 some of this material is received under the forward portion of the sheet, particularly under the shoe 21. As the sheet rides over this material the latter is plastered onto the top and face of the curb and the gutter. The smooth under surface of the sheet 14 will have the same effect as hand troweling and the bevel of the tool will press the finishing concrete into shape. The shoulder portion 15 will form the usual rounded curb shoulder, while the portion 16 will form the usual fillet at the intersection of the curb face and the gutter. The top portion A will finish the top of the curb and the portion B, will face the curb. The portion C with the inclined shoe 21 will finish the gutter in first class shape. It will be seen that the tool is a gage as well as a finishing device. By eliminating hand plastering and troweling a great saving in time and expense as well as in labor, is had and a more even job is produced.

The flanges 20 and 22 will distribute the finishing mortar entirely across the front of the tool and it is not necessary to spread the mortar on the work. The mortar may be dumped either on top of the curb or on the gutter and will be distributed as the tool is used. One of the great points in favor of this tool is its light weight, making it easy to handle without fatigue.

What I claim, is:

1. In a combined curb and gutter finishing tool, an inner member inclined outwardly from the curb and having a hand hole near its top, said inclination providing a suitable space for the hand in said handhole, said member extending longitudinally of the direction of movement of said tool, an outer member having a hand hole near its top, said outer member extending longitudinally of the direction of travel of said tool, and a transverse sheet connecting the inner and outer members and embodying curb and gutter forming portions.

2. In a combined curb and gutter finishing tool, a reinforcing bar bent between its ends for forming an upstanding portion and upper and lower approximately horizontal portions, the upper approximately horizontal portion having its free end bent upwardly and inclined outwardly, the lower approximately horizontal portion having its free end bent upwardly, an inner member inclined outwardly with respect to the curb and rigidly secured to the inclined end of the upper approximately horizontal portion and having a hand hole therein near its top, an outer member secured to the upwardly extending end of the lower approximately horizontal portion and having hand hole formed therein near its top, a transverse sheet extending between said members and connected therewith and also connected at its rear edge with the reinforced bar, said sheet being bent for forming an upstanding portion and upper and lower approximately horizontal portions.

3. In a combined curb and gutter finishing tool, an inner member and outer member, a reinforcing bar bent between its ends to form an upstanding portion and upper and lower approximately horizontal portions, means for rigidly securing the ends of the bar to said members, a transverse plate extending between said members and connected therewith at its ends and attached to the reinforcing bar at its rear edge, said transverse plate being bent between its ends forming an upstanding portion and upper and lower approximately horizontal portions, said approximately horizontal portions being inclined upwardly toward the forward end of the device, a shoe engaging the forward edge of the lower approximately horizontal portion and inclined upwardly in a forward direction, and a shoe engaging the forward edge of the upper approximately horizontal portion and inclined upwardly in a forwardly direction.

In testimony whereof I affix my signature.

GUY E. NOBLE.