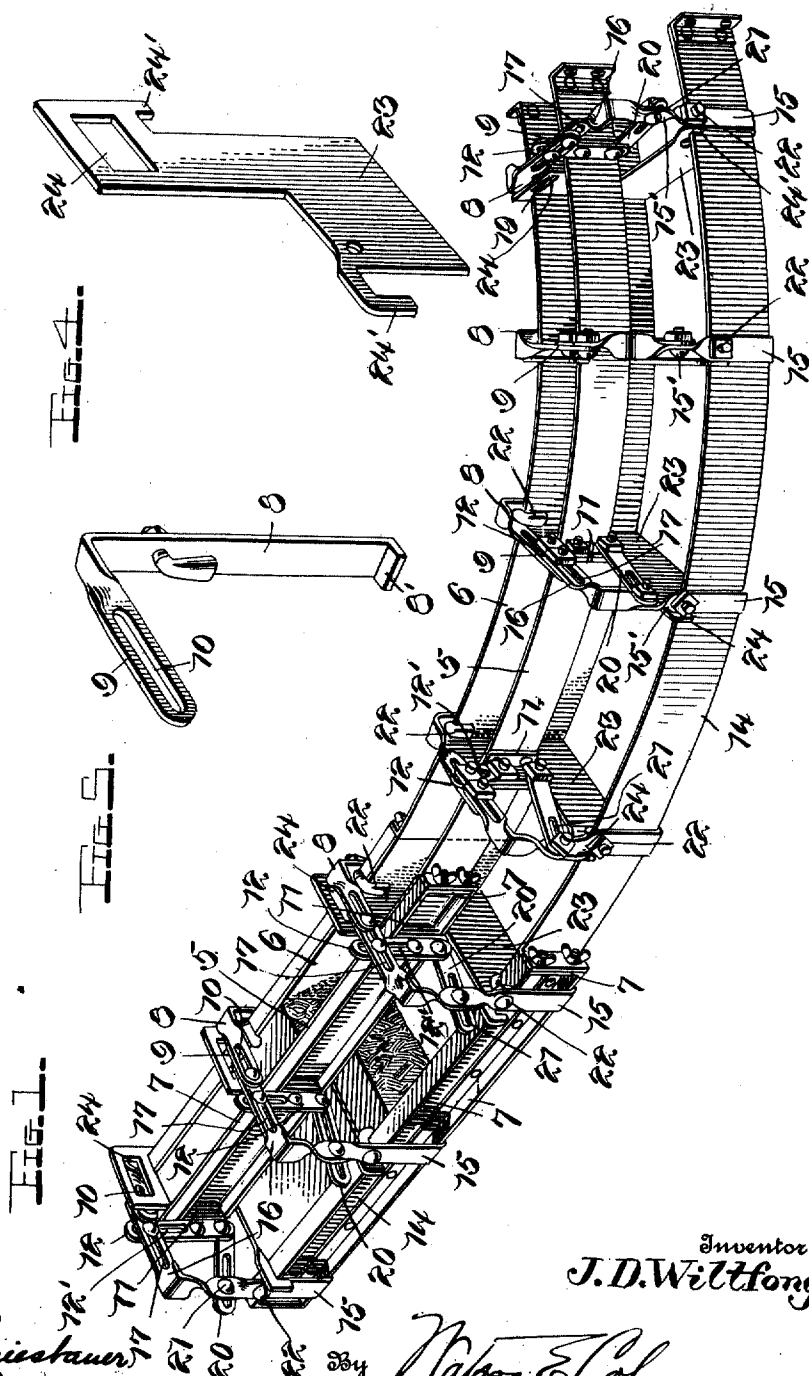


995,048.

J. D. WILTFONG.
COMBINED CURB AND GUTTER MOLD.
APPLICATION FILED OCT. 31, 1910.

Patented June 13, 1911.

2 SHEETS—SHEET 1.



Witnesses

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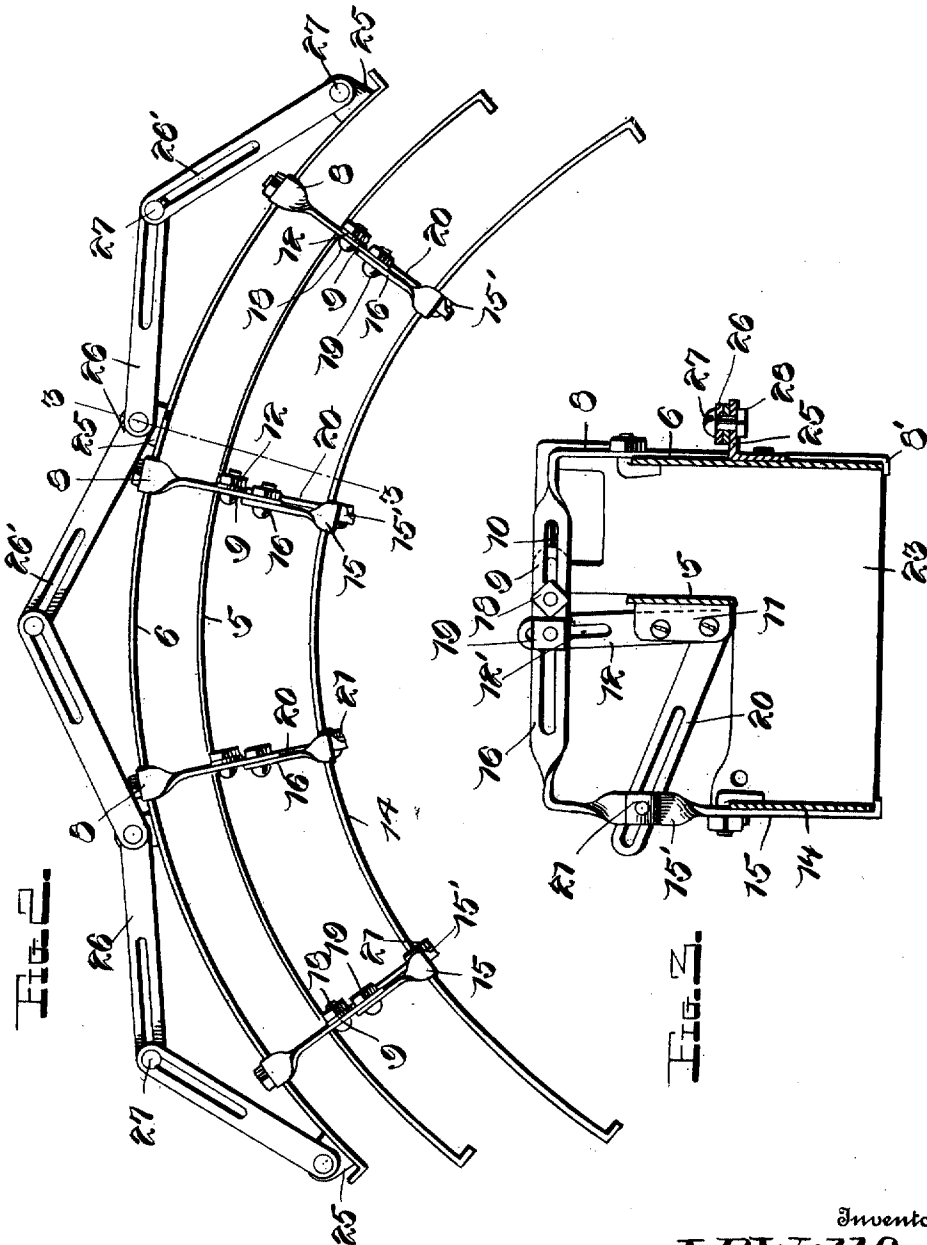
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Witnesses

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UNITED STATES PATENT OFFICE.

JAMES D. WILTFONG, OF LAWRENCE, KANSAS.

COMBINED CURB AND GUTTER MOLD.

995,048.

Specification of Letters Patent. Patented June 13, 1911.

Application filed October 31, 1910. Serial No. 589,988.

To all whom it may concern:

Be it known that I, JAMES D. WILTFONG, a citizen of the United States, residing at Lawrence, in the county of Douglas and State of Kansas, have invented certain new and useful Improvements in Combined Curb and Gutter Molds, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to a combined street curb and gutter mold and has for its primary object to improve and simplify and increase the efficiency of a mold of the general character shown and described in my prior application for patent filed by me September 7th, 1910, Serial Number 580,823.

A further object of the invention resides in the provision of a comparatively simple curb and gutter mold which is so constructed that the parts may be readily adjusted to obtain a curb of any desired width.

A further object is to provide a mold consisting of a plurality of longitudinal sheet metal plates which may be readily bent for molding the curved corner sections of curbs and gutters whereby the gutter may be disposed inside or outside of the curb, and means for adjusting the curvature of said plates so that any desired radius of the completed section may be obtained.

With the above and other objects in view, the invention consists of the novel features of construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view illustrating the practical operation of my improved mold showing one of the corner sections and one of the straight sections in position; Fig. 2 is a top plan view, the corner plates being bent reversely to those shown in Fig. 1 so as to dispose the gutter inside of the curbing; Fig. 3 is a section taken on the line 3—3 of Fig. 2; Fig. 4 is a detail perspective view of one of the templates; and Fig. 5 is a similar view of one of the bars for adjustably connecting the curb plates of the mold together.

As above stated the present invention involves the general characteristics of my former application, but differs in detail therefrom in order to effect a quicker adjustment of the mold plates and to simplify the means for obtaining such adjustment where-

by the cost of production is materially reduced. The present device also differs from that disclosed by my prior application, in that it includes means whereby the gutter is simultaneously formed with the curb sections, the curved corner plates of the mold being adapted to be reversely bent so as to dispose the gutter portion of the mold either outside or inside of the curb as may be desired.

In Fig. 1 of the drawings I have illustrated my improved mold arranged for the molding of curbing and gutters as are commonly employed by municipalities in the formation of street curbing. 5 and 6 indicate the curb plates of the mold, one of which is of greater width than the other and forms one side of the completed curb section. When arranged in position for use these mold plates have their upper longitudinal edges disposed in the same transverse plane and they are each provided with the reinforcing angle strips 7 which are secured to their longitudinal and end edges in the same manner as disclosed in my former application. The plate 6 carries a plurality of bars 8 which are vertically disposed upon one side of the same and at their lower ends are bent at right angles as indicated at 8' to engage under the lower reinforcing angle strip 7. The upper ends of the bars 8 are laterally extended as shown at 9. These upper ends of the bars are twisted and are provided with longitudinal slots 10 as clearly shown in Fig. 3. The other of the mold plates 5 has fixed thereto a plurality of bracket plates 11 to which the vertical arms 12 are rigidly secured. These arms project above the upper edge of the mold plate 5 and are slotted as shown at 12'. The gutter plate 14 is of similar construction to the curb plates 5 and 6 and is of substantially the same width as the plate 5. The lower edge of this plate and of the curb plate 6 are disposed in the same plane in the use of the mold. Vertical bars 15 are arranged upon the gutter plate 14 and are similar to the bars 8 carried by the plate 6. The laterally extending portions 16 of these bars are, however, of greater length than the similar portions of the bars 8 and are also provided with longitudinal slots 17. These laterally disposed ends of the bars 15 extend across the upper slotted ends of the arms 12 and

are disposed against one side of the slotted ends 9 of the bars 8. Bolts 18 and 19 respectively rigidly secure the ends of the bars 8 and 15 together and the upper ends of the arms 12 to the bars 15. In this manner relative movement of the bars 8 and 15 and consequently of the plates, 6 and 14 is prevented while vertical movement of the curb plate 5 is prevented by the connection of the arms 12 to the lateral portions 16 of the bars 15. Suitable nuts are of course threaded upon the bolts 18 and 19 to rigidly secure the arms and bars together. The plates may, however, be readily adjusted by simply loosening the nuts and moving the curb and gutter plates with respect to each other and then tightening the same. The bars 15 immediately above the upper edge of the gutter plate 14 are twisted as shown at 15' and upon these twisted portions of the bars 15 the outer ends of link bars 20 are disposed, the other ends of said bars being pivoted upon the bracket plates 11. The links 20 are provided with longitudinal slots through which the bolts 21 extend to secure said links against movement upon the bars 15. Thus as the gutter plate is adjusted, the ends of the links move thereon and by tightening the nuts on the bolts 21 said links may be securely clamped to the bars 15 to rigidly hold the gutter plate in its adjusted position. Bolts 22 also extend through the bars 8 and 15 immediately above the upper edges of the mold plates 6 and 14 and have their inner ends angularly disposed for engagement with the faces of said mold plates. These bolts carry suitable nuts which are adapted to clamp upon the bars 8 and 15 and thus rigidly secure the same upon the mold plates. In order to further maintain the mold plates in their proper spaced relation, the templets 23 are arranged between the same. These templets are of substantially L-shaped form and are provided with hand holds 24 in one end. Upon the lower leg of the templets and against the edge of the vertically disposed portions thereof the curb plate 5 engages. Each end of the templets is formed with a lip 24' for engagement over the upper edges of the plates 6 and 14.

The curved section of the mold is substantially the same in all respects to the straight form with the exception that the mold plates are not provided with the longitudinal reinforcing angle strips at their longitudinal edges. They are, however, provided with the same at their ends and are connected to the end strips of the straight form as described in my former application. The mold plates of the curved section may be readily bent in reverse directions as will be seen by a comparison of Figs. 1 and 2 of the drawings but the means for maintaining the plates in their bent condition so as to hold the same at the proper radius while the

plastic material is being poured, differs somewhat from the means employed for this purpose in my former device. In the present instance bracket plates 25 are secured to the mold plate 6 and a plurality of links 26 have their ends pivotally mounted upon these brackets. The other end of the links are longitudinally slotted as shown at 26' and through these slots the bolts 27 extend. Nuts 28 are threaded on the bolts whereby the links may be rigidly secured together against relative movement. It will thus be seen that after the mold plates have been properly bent, the adjustment of the nuts 28 into clamping engagement with the link bars will securely retain the plates in their bent condition. The purpose of this arrangement of the link bars is in order to permit of the reverse bending of said plates when it is desired to form the gutter on the inside of the curbing instead of outside as may be found desirable under certain circumstances. This result could not be obtained by means of the construction employed in my prior application for holding the curved mold plates as adjusted.

The mold plates of the straight form are adapted to be longitudinally adjusted as shown and described in my former application, and this adjusting means will not therefore be here described in detail.

Although the gutter and curb plates terminate in different planes after they have been properly bent and rigidly secured in their adjusted positions, a continuous mold is provided by adjusting the plates of the straight mold forms at different angles so that they will engage the ends of the curved plates to which they are rigidly secured.

From the foregoing it is believed that the construction and manner of operation of my improved curb and gutter mold will be readily understood.

The mold is extremely simple in construction and may be easily and quickly adjusted to form a corner section of any desired radius. The device is also extremely strong and durable and may be readily set up in instances where the foundation upon which the curbing is to be laid is stony or contains a large quantity of shale so that stakes cannot be driven into the ground. By the use of my improved mold, the curb may be formed upon a solid rock foundation, no supporting stakes of any kind being necessary. Furthermore, the mold may be manufactured at a comparatively low cost and can be utilized for a great number of other purposes than the forming of street curbing to which, however, the device is particularly applicable.

While I have shown and described the preferred construction and arrangement of the various parts, it will be understood that the device is susceptible of a great many

minor modifications without departing from the essential feature or sacrificing any of the advantages thereof.

Having thus described the invention what is claimed is:—

5 A combined curb and gutter mold comprising spaced parallel curb plates of different widths, said plates having their upper edges disposed in the same transverse
10 plane, a gutter plate spaced from the curb plates and arranged below the narrower curb plate, vertical bars secured to the wider curb plate and the gutter plate, the upper
15 ends of said bars being laterally disposed and arranged upon each other, said ends having longitudinal slots therein, bolts extending through said slots to adjustably connect the bars and maintain the plates in their adjusted spaced relation, the other of

said curb plates carrying a plurality of 20 slotted vertical arms disposed upon the slotted ends of the bars carried by the gutter plate, bolts to secure the arms and bars together, links pivoted at one end to said curb plate and having their other ends dis- 25 posed upon the bars of the gutter plate and longitudinally slotted, bolts extending through the slots of the links and said bars to adjustably connect the same, and a plu- 30 rality of templets arranged between the curb plates and gutter plates.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

JAMES D. WILTFONG.

Witnesses:

A. R. MAXWELL,
HARRY GARDNER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
