

No. 772,597.

PATENTED OCT. 18, 1904.

J. M. WILLIAMSON.
FORMER FOR CURBS AND GUTTERS.

APPLICATION FILED OCT. 13, 1903.

NO MODEL.

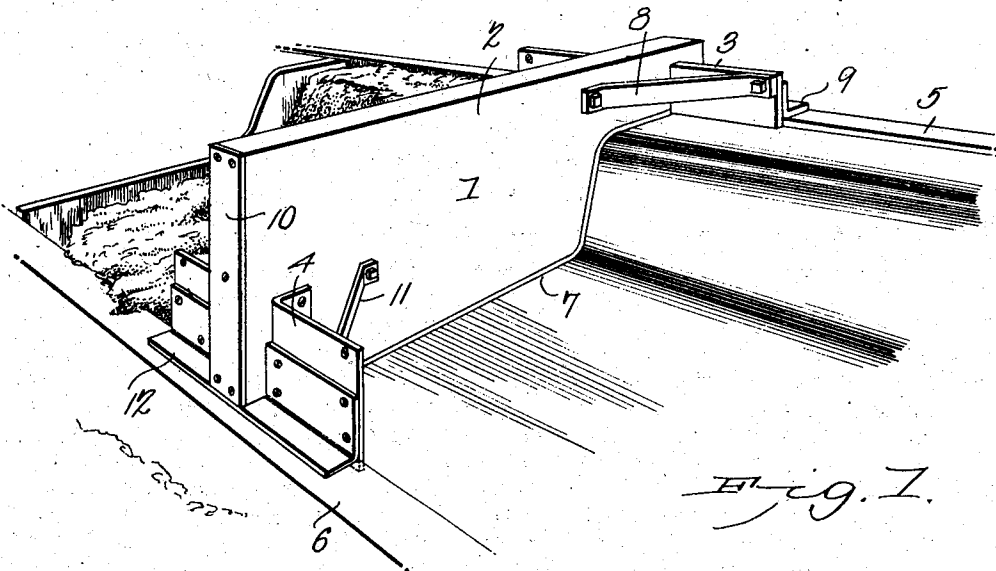


Fig. 1.

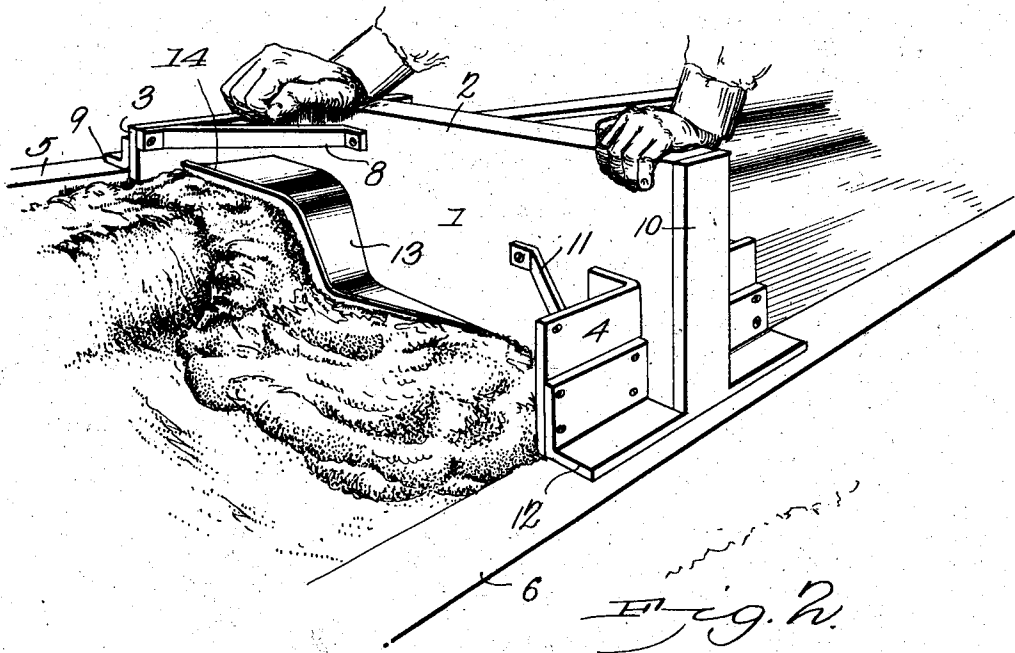


Fig. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

JOHN M. WILLIAMSON, OF TUSCOLA, ILLINOIS.

FORMER FOR CURBS AND GUTTERS.

SPECIFICATION forming part of Letters Patent No. 772,597, dated October 18, 1904.

Application filed October 13, 1903. Serial No. 176,897. (No model.)

To all whom it may concern:

Be it known that I, JOHN M. WILLIAMSON, a citizen of the United States, residing at Tuscola, in the county of Douglas and State of Illinois, have invented a new and useful Former for Curbs and Gutters, of which the following is a specification.

At the present day it is the practice to mold or cast street curbs and gutters from plastic material—such, for example, as cement—which while in a plastic condition is placed in a suitable temporary mold set up for the purpose and has its upper surface worked to the desired contour and given the proper smoothness and finish by the employment of trowels and various other tools.

My invention is directed to a device for forming or shaping the upper surface of the plastic material from which the curb and gutter are cast, and has for its objects to produce a device of simple construction by which said operation may be quickly performed and by the use of which the tools ordinarily employed for this purpose may be dispensed with.

In the accompanying drawings, Figure 1 is a perspective view taken from the front of my improved device and illustrating the same in operation. Fig. 2 is a similar view taken from the rear.

Referring to the drawings, 1 indicates my improved device, which comprises a body portion 2 and guide members 3 and 4, which latter in practice travel, respectively, upon the upper edges of the parallel boards 5 and 6, forming the sides of the curb and gutter mold.

The body portion 2 of the device preferably consists of a suitable length of board or planking which normally stands on edge and has its lower active edge of suitable contour to impart the desired cross-sectional form of the curb and gutter to the upper surface of the plastic material over which the device travels, said edge being preferably metal-bound, as at 7.

The end member 3 is composed of metal, from which it is cast or otherwise formed, and comprises a vertically-upstanding plate arranged at right angles to and extending on opposite sides of the body portion 2, to one end

of which it is secured in any suitable manner and relative to which it is braced by means of metal straps or bars 8, which are disposed diagonally between the member and body, one on each side of the latter, the ends of the braces being bolted or riveted to said parts. The member 3 is provided adjacent to its lower edge with an outwardly-extending horizontal flange 9, which extends longitudinally of the member and in practice travels upon the upper edge of board 5, the flange being inset from the lower edge of the member to permit the latter to travel upon the inner face of said board. The member 4 is also composed of metal and comprises a vertically-upstanding plate arranged at right angles to and extending upon opposite sides of body 2, to the outer end of which it is secured, preferably, by screws engaging through suitable perforations in a metal strap 10, which is formed integral with the member and lies against the outer end edge of the body 2. The member 4 is also braced by diagonally-disposed straps or bars 11, arranged one on either side of the body and having their ends bolted or otherwise secured to the latter and to the vertical plate of the member. This member is provided adjacent to its lower edge with a horizontal flange 12, which normally travels upon the upper edge of board 6, said flange being upon the outer face of the member and arranged parallel with its lower edge, from which it is inset or spaced to permit engagement of the member with the inner face of the board for guiding the device in its movements. At this point it is to be especially noted that owing to the end members engaging the inner faces of the respective boards upon which they travel longitudinal movement of the device as a whole when in operation will be obviated, thus insuring traveling of the member in a steady course.

Upon the front face of the body 2 and parallel with its lower edge there is arranged a forwardly-extending horizontal flange 13, which is preferably formed integral with the member 3 and with the metal binding upon the lower edge of the body. This flange, which may, however, be associated with the body in any other suitable or desired manner, has its front edge inclined outwardly from its point

of meeting with the body 2 to a suitable point of meeting with the member 3 and also slightly upwardly curved or flanged along its outer edge, as at 14. Thus as the device
 5 travels over the surface of the plastic material the latter will be properly fed from front to rear beneath the flange 13 and spread uniformly with a sweeping or shearing action, whereby a smooth even finish will be imparted
 10 to the surface of said material.

In practice after the curb and gutter mold has been filled with suitable plastic material my improved device is seated in position with its members 3 and 4 rested upon the side
 15 boards of the mold and in engagement therewith, as above described. The operator then grasps the upper edge of the body portion of the device and moves the same bodily longitudinally of the boards 5 and 6, at the same
 20 time exerting a suitable amount of downward pressure upon the device. This operation serves to impart a smooth even finish to the material and at the same time the proper form to the curb and gutter, the surplus material being swept along in advance of the device and discharged at the end of the mold.

From the foregoing it will be seen that I produce a device of simple construction which will be efficient in operation and one by
 30 which the employment of the usual straight-edges, floats, trowels, &c., in attaining the desired ends is entirely dispensed with.

It is to be understood that I do not limit or confine myself to the precise details herein set
 35 forth, inasmuch as minor changes therein may be made without departing from the spirit or scope of the invention.

Having thus described my invention, what I claim is—

40 1. A device of the class described comprising a body portion adapted to extend transversely of a curb and gutter mold and guide members carried by the body for travel upon and longitudinally of the sides of the mold.

45 2. A device of the class described comprising a body portion adapted to extend transversely of a curb and gutter mold and guide members carried by and extending transversely of the body for travel upon and longitudinally of the sides of the mold.

50 3. A device of the class described comprising a body portion adapted to extend transversely of a curb and gutter mold and guide members carried by the body for travel upon and longitudinally of the sides of the mold, said body being provided with a forwardly-extending horizontal flange having an inclined
 55 front edge.

60 4. A device of the class described comprising a body portion adapted to extend trans-

versely of a curb and gutter mold and guide members carried by the body for travel upon and longitudinally of the sides of the mold, said body being provided with a forwardly-extending horizontal flange having an inclined
 65 and upturned front edge.

5. A device of the class described comprising a body portion, guide members associated with the ends thereof, and an outwardly-extending horizontal flange disposed longitudinally of each guide member and inset from
 70 its lower edge.

6. A device of the class described comprising a body portion adapted to extend transversely of a curb and gutter mold, guide members carried by and disposed at the ends of the body for travel upon the sides of the mold longitudinally of the latter, and an outwardly-extending horizontal flange disposed longitudinally of each guide member and inset from
 80 the lower edge of the latter.

7. A device of the class described comprising a body portion adapted to extend transversely of a curb and gutter mold, transversely-extending guide members carried by
 85 and disposed at the ends of the body for travel upon the sides of the mold longitudinally of the latter, and an outwardly-extending horizontal flange disposed longitudinally of each guide member and inset from the lower edge
 90 of the latter.

8. A device of the class described comprising a body portion having a forwardly-extending horizontal flange associated therewith, the front edge of the flange being inclined, guide members associated with the ends
 95 of the body portion, and an outwardly-extending horizontal flange carried by and disposed longitudinally of each guide member and inset from the lower edge of the latter. 100

9. A device of the class described comprising a body portion adapted to extend transversely of a curb and gutter mold and having a forwardly-extending horizontal flange associated therewith, the front edge of the flange
 105 being inclined, transversely-extending guide members associated with the ends of the body for travel upon and longitudinally of the sides of the mold, and an outwardly-extending horizontal flange carried by and disposed longitudinally of each guide member and inset from
 110 the lower edge of the latter.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN M. WILLIAMSON.

Witnesses:

HARRY MENK,

WADE WILLIAMSON.