

No. 656,377.

Patented Aug. 21, 1900.

E. W. SEAMANS.
MOLD FOR CEMENT CURBS AND GUTTERS.

(Application filed Apr. 30, 1900.)

(No Model.)

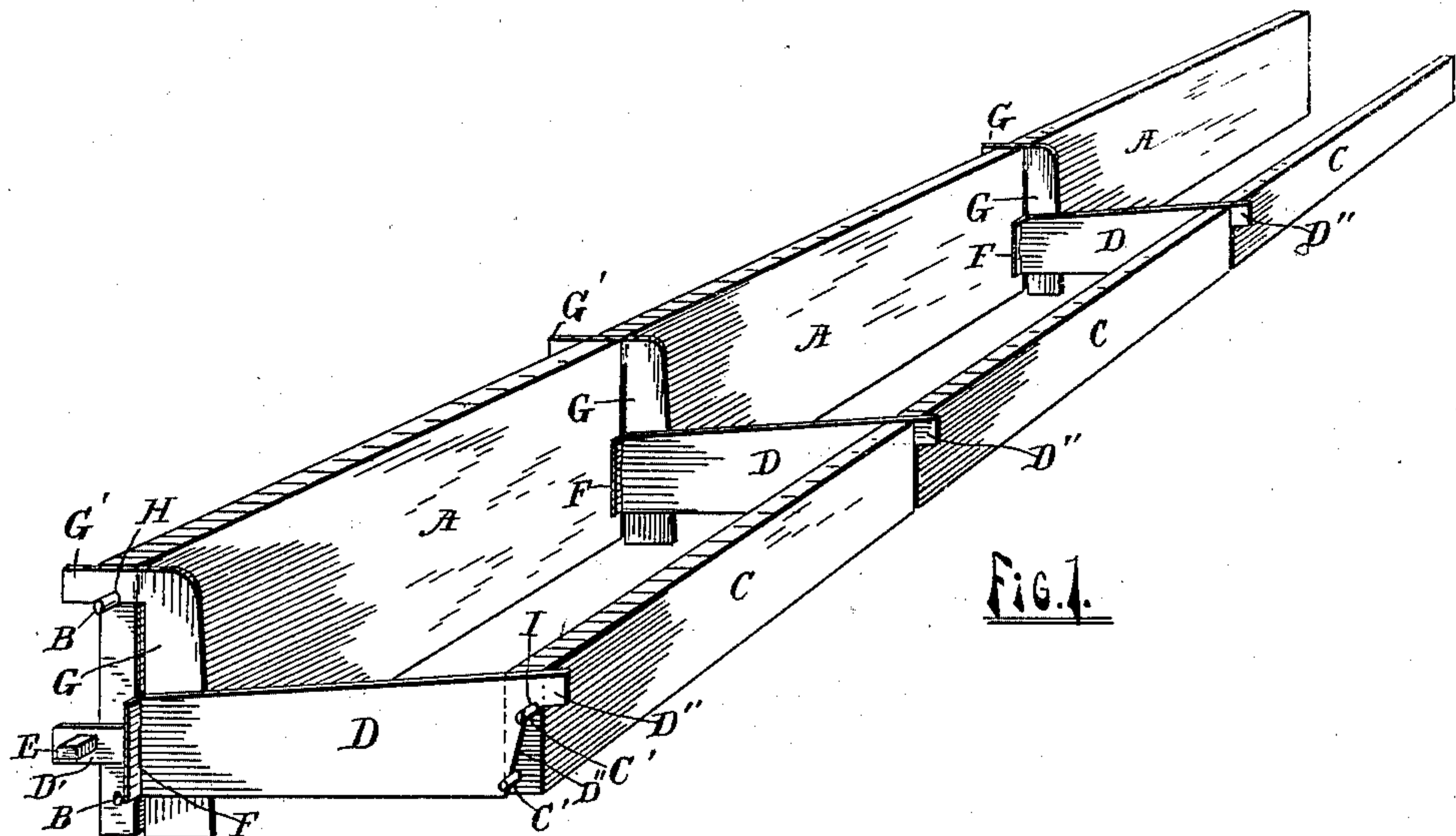


Fig. 1.

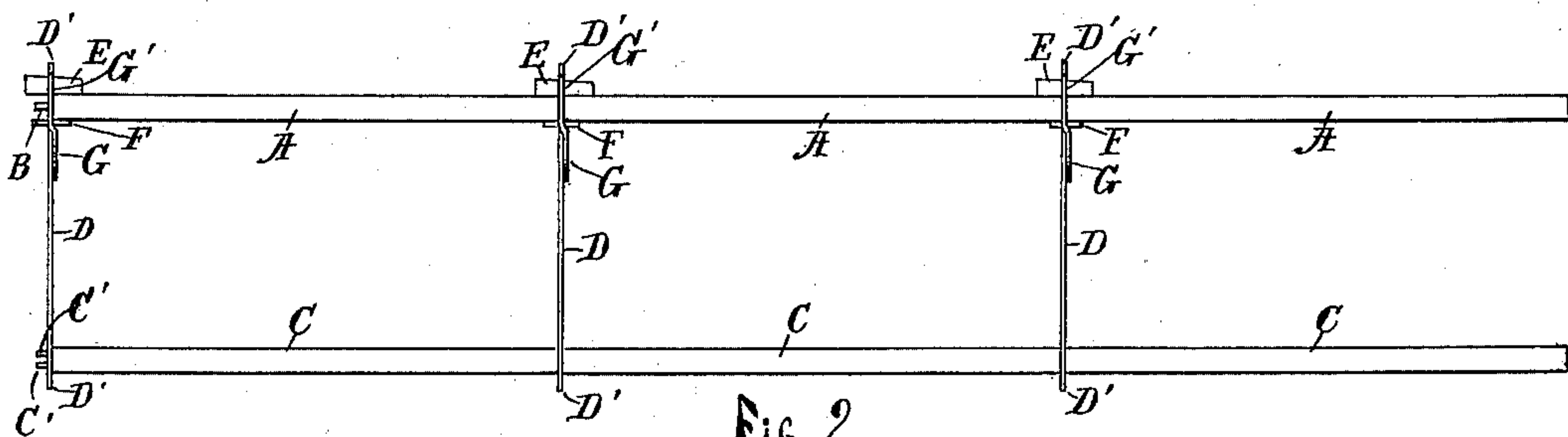


Fig. 2.

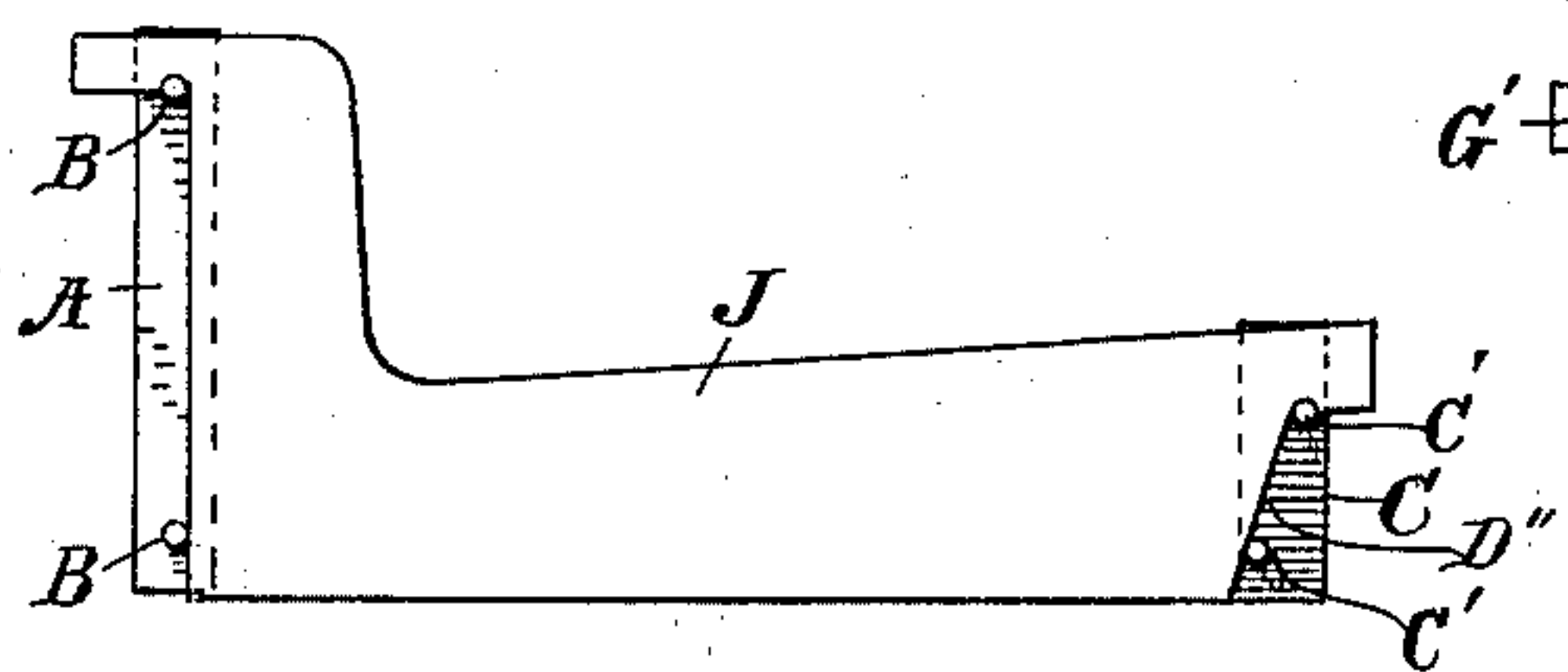


Fig. 3.

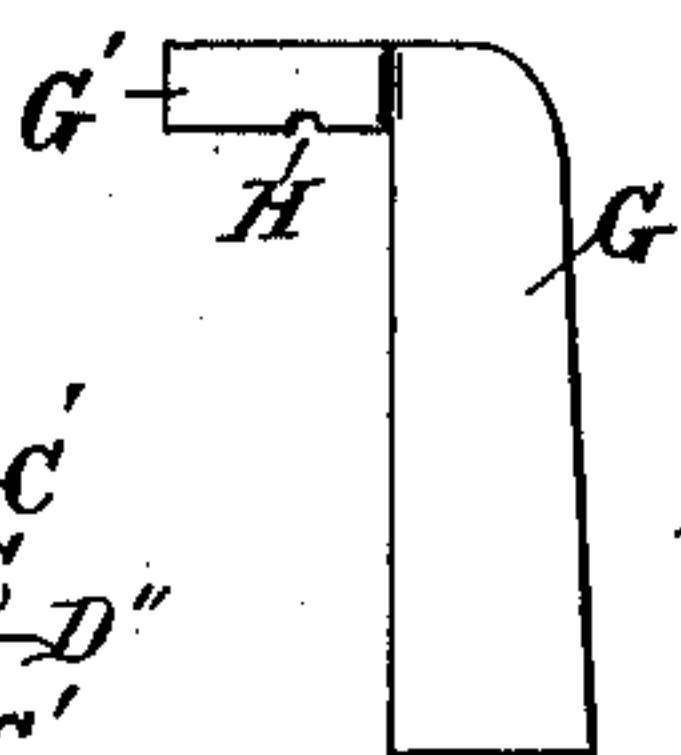


Fig. 4.

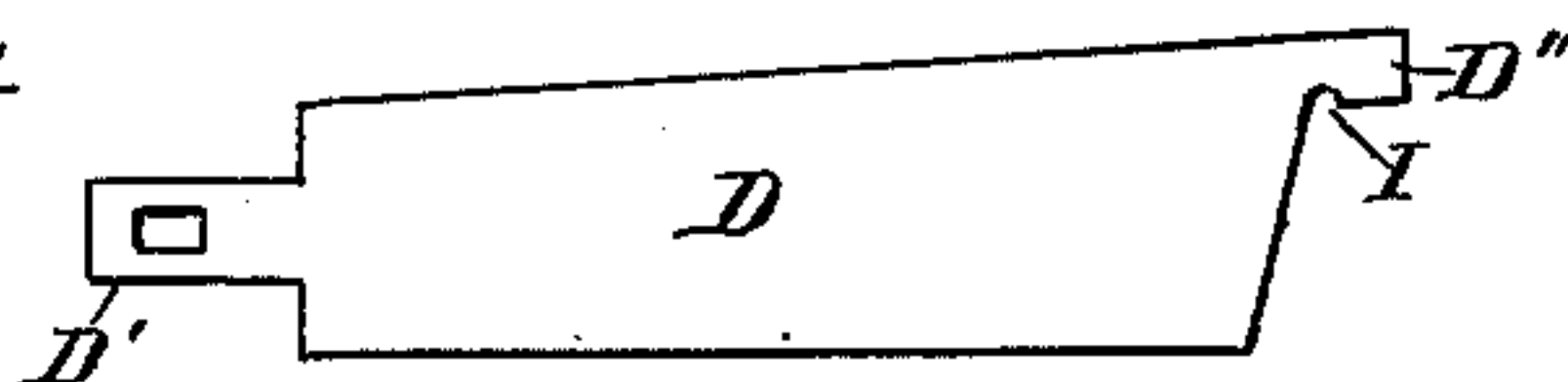


Fig. 5.



Fig. 6.

WITNESSES:

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MOLD FOR CEMENT CURBS AND GUTTERS.

SPECIFICATION forming part of Letters Patent No. 656,377, dated August 21, 1900.

Application filed April 30, 1900. Serial No. 14,807. (No model.)

To all whom it may concern:

Be it known that I, EDWARD W. SEAMANS, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Molds for Cement Curbs and Gutters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in molds for making cement curbs and gutters for streets; and its object is to provide the same with certain new and useful features, hereinafter more fully described, and particularly pointed out in the claims.

My invention consists, essentially, of the combination and arrangement of planks forming the longitudinal walls of the mold and transversely-arranged sheet-metal dividing-plates, the planks and plates being detachably and adjustably connected, as hereinafter more fully and particularly described, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective of a device embodying my invention; Fig. 2, a plan of the same; Fig. 3, a detail of a modified construction; Fig. 4, a detail of one of the curb-plates; Fig. 5, a detail of one of the gutter-plates, and Fig. 6 a detail of the clamping-plate F.

Like letters refer to like parts in all of the figures.

The side of the mold at the rear of the curb consists of a series of broad planks A, arranged end to end and detachably connected at the abutting ends by dowel-pins B.

G are thin plates of sheet metal arranged adjacent to the seams between the abutting ends of the planks and having a profile at the top and the side opposite the planks of the shape of the curb in cross-section and provided with a rearward extension G', having a downwardly-open recess H in its under side to engage the upper dowel-pin B. The back edge of the vertical portion of the plate G extends downward, parallel with the face of the plank A, and rests against a clamping-plate F, having a central opening to receive a tenon D' on the rear end of the gutter-plate

D, which plate extends in a vertical plane at right angles to the plank A. The upper edges of said plates are inclined, and the width of these plates corresponds to the transverse section of the gutter portion of the structure to be made. The tenon D' extends through between the abutting ends of the planks A and has an opening to receive a key or wedge E. The adjacent ends of the planks are thus firmly clamped between the plates F and the keys E, and at the same time the plates D are held in vertical adjustment relative to the other parts to determine the height of the curb above the gutter.

At the outer upper corners of the plates D are extensions D'', provided with downwardly-open recesses in the under side to engage the upper dowel-pins I in the adjacent ends of the narrow planks C. Said planks are of the same length as the plank A and form the forward wall of the mold, and the outer ends of the plates D are cut away at an incline, as at D'', and the lower dowel-pin is engaged thereby, the upper pin being placed near the outer side of the plank C and the lower pin C' being placed near the inner side of the same, thus permitting the ready vertical disengagement of the plates D from these pins.

Suitable stakes (not shown) are used to hold the planks in place, as is usual in such cases. Also when filling the mold with cement other planks (not shown) are placed vertically against the outer edges of the curb-plates G and held in position by suitable clamps embracing the same.

In the modified form shown in Fig. 3 the curb-plate and gutter-plate are integral and the device adapted to make but one depth of gutter. In the construction shown in the other figures the plates D are vertically adjustable, whereby the depth of the curb can be varied at pleasure.

From the foregoing description the operation of my device may be readily understood. By adjusting the parts as shown in Fig. 1 and driving the keys or wedges E and supporting the planks C by the series of stakes engaging the outer surface of the same the lower portion or gutter part is first filled, and then suitable planks are placed against the outer edges of the plates G and clamped in

place, and the curb portion is then filled. These latter planks are then removed, and by means of a suitable straight-edge engaging the edges of the plates G and D the surface of the material is suitably formed to conform to the profile of the plates G and D, and thereafter finished by troweling in the usual way. When the cement has become set, the keys or wedges E are loosened, and the plates G and D can then be drawn out vertically from between the sections of the curb and gutter. If a curb only is desired, the plates D are omitted entirely and the plates G are used, together with the plank A, and other planks of corresponding width held against the outer edges of the plates G are used.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A mold consisting of two series of planks, the planks of each series being arranged end to end, dowel-pins connecting the ends of the planks, and a series of thin plates extending between the ends of the planks and having downwardly-open recesses engaging the dowel-pins, substantially as described.

2. A mold consisting of two series of planks of different widths, a series of curb-plates detachably secured to the wider planks, and a series of gutter-plates connecting the respective series of planks, and vertically adjustable relative to the wider planks, substantially as described.

3. A mold consisting of two series of planks arranged end to end, and a series of plates extending between the abutting ends of the planks, and detachably secured thereto and having an outline corresponding to the cross-section of a curb and gutter, substantially as described.

4. A mold consisting of two series of planks arranged parallel and connected with dowel-pins, plates having recesses to engage the upper dowel-pins and extending between the adjacent ends of the planks, and vertically

removable from between the same, substantially as described.

5. The combination of a series of planks connected by dowel-pins at their adjacent ends, a series of thin metallic plates arranged at right angles thereto, and having extensions at their upper ends adapted to pass between the adjacent ends of the planks, and provided with recesses to engage the upper dowel-pins, substantially as described.

6. The combination of two series of planks of different widths connected at their adjacent ends by dowel-pins, curb-plates having lateral extensions at their upper ends to pass between the adjacent ends of the wider planks and having recesses to engage the dowel-pins, gutter-plates vertically adjustable and provided with means for clamping the same to the wider planks and having extensions to pass between the narrower planks, and provided with recesses to engage the dowel-pins connecting the planks, substantially as described.

7. The combination of a series of wide planks connected at their adjacent ends by dowel-pins, a series of curb-plates having rear extensions at their upper ends to pass between the planks, and provided with recesses at their under side to engage the pins, clamping-plates engaging the inner surfaces of the planks and having openings and supporting the curb-plates, gutter-plates having tenons passing through the clamping-plates, wedges passing through the tenons, a series of narrow planks connected by dowel-pins, and extensions on the gutter-plates passing between the said planks and having recesses to engage the dowel-pins, substantially as described.

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

EDWARD W. SEAMANS.

Witnesses:

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