(Model.)

C. J. BAYER.

STREET CROSSING.

No. 263,754. Patented Sept. 5, 1882.

Fig. 1

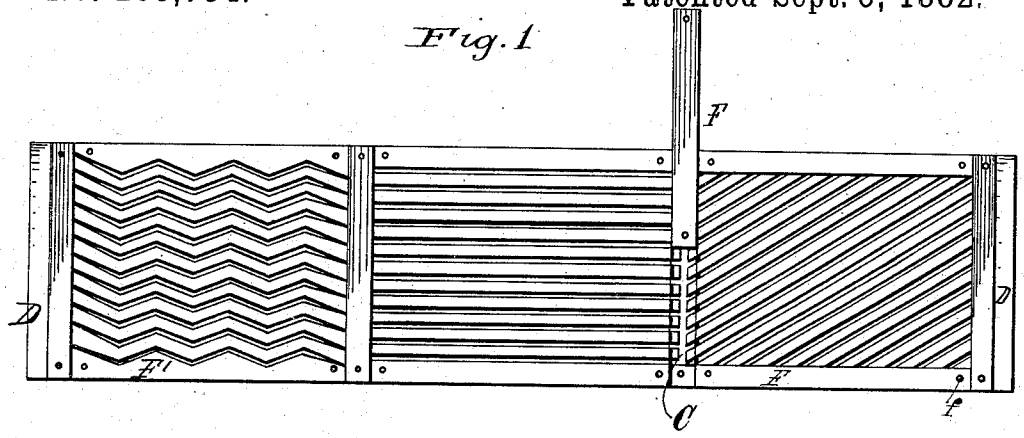


Fig. 2

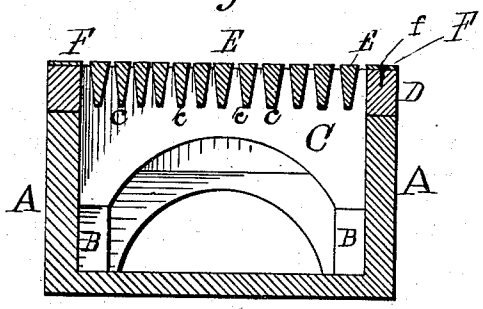
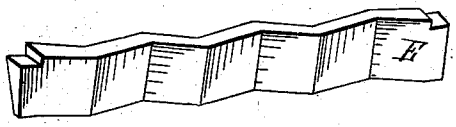


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES J. BAYER, OF GRINNELL, IOWA.

STREET-CROSSING.

SPECIFICATION forming part of Letters Patent No. 263,754, dated September 5, 1882.

Application filed May 11, 1882. (Model.)

To all whom it may concern:

Be it known that I, CHARLES J. BAYER, a citizen of the United States of America, residing at Grinnell, in the county of Poweshiek and State of Iowa, have invented certain new and useful Improvements in Street-Crossings; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to street-crossings, pavements, and gutter-coverings; and it consists in certain features hereinafter described, and specifically set forth in the claims.

Figure 1 is a plan; Fig. 2, a central transverse section, and Fig. 3 a detail.

A represents the brick-work of a culvert, ditch, or gutter-trough, in which are placed the steps or foundation-blocks B B, upon which rest arched cross-pieces C of the frame D. The upper edges or surfaces of the cross-pieces are notched or grooved, as shown in Fig. 3 at *c*, and are thus adapted to receive, support, and retain in parallel positions the removable bars E, which may be parallel with the sides of the frame or diagonal thereto, and which may be straight or curved or any other desired shape longitudinally, but which are preferably wider at their upper surfaces than at their lower, whereby a supporting-surface is produced suitable to walk upon, while the openings between the bars, on account of the wedge shape, widen from the top to the bottom, thus facilitating the passage of water, dirt, and other street accumulations therethrough, and adapting the crossing to become quickly dry and cleanly after a rain. These bars are preferably to be made of metal; but they may be of wood, and whatever their contour the wedge shape described above is adhered to for the purpose stated. The frame is bound at its ends and edges and over the cross-bars C with metal strips F, which at the cross-pieces are let into the bars, so that by raising said metal bindings the bars may be taken out for the purpose of access to the culvert or for the replacing of broken bars. The upper surface of the bars and the upper surface of the binding-strips are in a common plane.

Suitable spikes, screws, or bolts, *f*, may be used to secure the binding-strips to the frame, which may be constructed of wood or iron, as desired.

In using zigzag, angular, or curved bars the binding-strips are shaped accordingly at their inner edges, as at F′.

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

1. The combination, with the culvert having foundation-blocks B B, of a frame, D, provided with arched cross-pieces resting upon the foundation-blocks, and slotted, as shown, for the reception of the removable bars E, and provided with binding and securing strips F, substantially as shown and described.

2. The combination, with the frame D, having slotted cross-bars C, of zigzag longitudinal removable bars E, adapted to lie in the slots of the cross-bars and mortised for the reception of the transverse binding-strips, and having their upper surface flush with the upper surface of the zigzag binding-strips F′, substantially as shown and described.

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

CHARLES J. BAYER.

Witnesses:

A. P. PHILLIPS,

M. SNYDER.