(No Model.)

D. C. PIERCE.

Railway Crossing.

No. 239,541. Patented March 29, 1881.

Fig. 1.

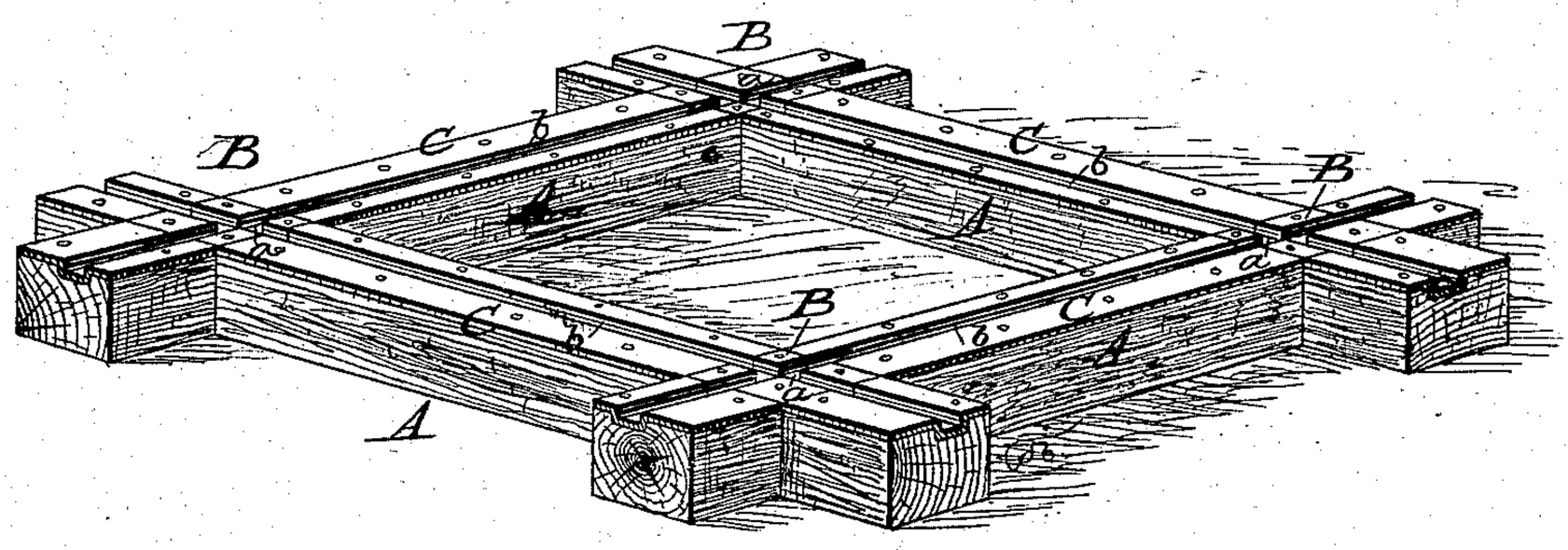


Fig. 2.

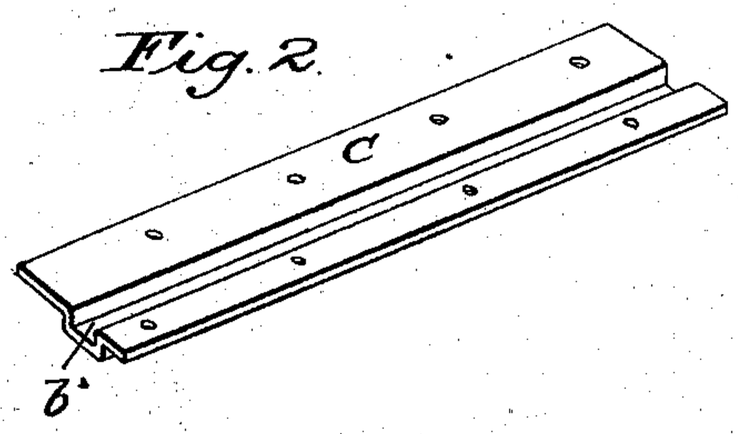
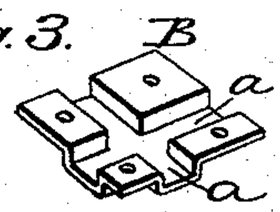


Fig. 3.



Attest.

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UNITED STATES PATENT OFFICE.

DENISON C. PIERCE, OF CHICAGO, ILLINOIS.

RAILWAY-CROSSING.

SPECIFICATION forming part of Letters Patent No. 239,541, dated March 29, 1881.

Application filed August 16, 1880. (No model.)

To all whom it may concern:

Be it known that I, DENISON C. PIERCE, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Railway-Crossings; and I do hereby declare that the following is a full, clear, and exact description of the invention, which 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 of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of a rectangular railway-crossing complete, showing the timbers provided with my stamped corner-plates and rails. Fig. 2 is a similar view of the stamped rails for connecting the corner-plates, and Fig. 3 is a similar view of the corner-plate.

The same letters indicate the same parts wherever they occur in the figures.

My invention relates to an improvement in railway-crossings, (sometimes called "cross-frogs,") by which they are rendered more durable and their cost is greatly reduced.

The invention consists in attaching, by bolts or spikes on the top of the heavy timbers which form the base of the crossing, cast, rolled, or stamped steel corner-pieces, having the necessary grooves or indentations for the reception of the flanges of the car-wheels, and stamped, rolled, or cast-steel rails, by which the corner-pieces are united, said corner-pieces and rails being inserted and fitted in recesses in the timbers adapted to receive them, and confined by any appropriate means.

In the drawings, A A mark the timbers of the crossing, arranged and united in the ordinary way; B B, the corner-pieces, which are here represented as rectangular, but may have any required angle, and are provided with the grooves *a a* for the reception of the wheel-flanges and holes for the insertion of the bolts or spikes by which they are fixed to the timbers. Between the corner-pieces are inserted the rails C C, having grooves *b b*, as shown, for the passage of the wheel-flanges, and attached to the timbers by bolts, spikes, or other suitable means.

I prefer to make the rails and corner-pieces of my improved crossing of plate-steel, stamped up in dies by the same process as that described in my patent for making railway-frog caps. The projecting parts on the bottom of the corner-pieces and rails enter recesses cut in the timbers to fit and receive them.

The rails and corner-pieces may be cast or rolled, if preferred, and the timbers A may be replaced by frames of iron.

Sections of ordinary rails may also be used, in the place of those herein shown, to unite the corner-pieces without altering the essential character of my invention.

What I claim, and desire to secure by Letters Patent, is—

The steel-plate railway-crossing herein described, consisting of the combination of the corner-pieces B, each made in one piece, attached to the frame, as set forth, and provided with grooves *a a*, the rails C, and frame A, having recesses to receive the projections on the bottom of the corner-pieces, all constructed in the manner specified, for the purpose stated.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

DENISON C. PIERCE.

Witnesses:

GEO. F. GRAHAM,

CHAS. F. STANSBURY.