(No Model.)

A. BATAILLE.

METALLIC RAILING AND GUARD.

No. 388,108. Patented Aug. 21, 1888.

Fig. 1.

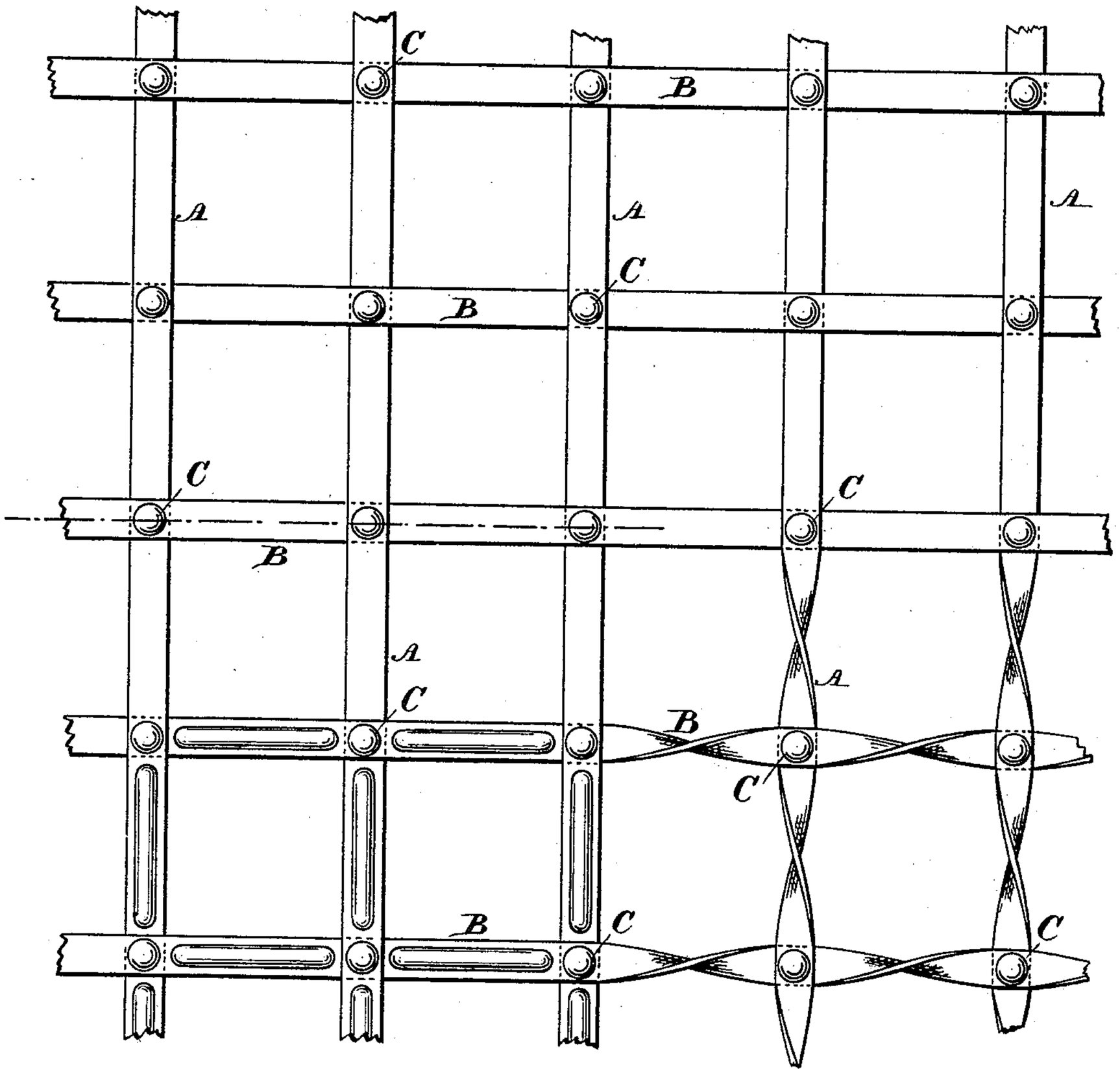
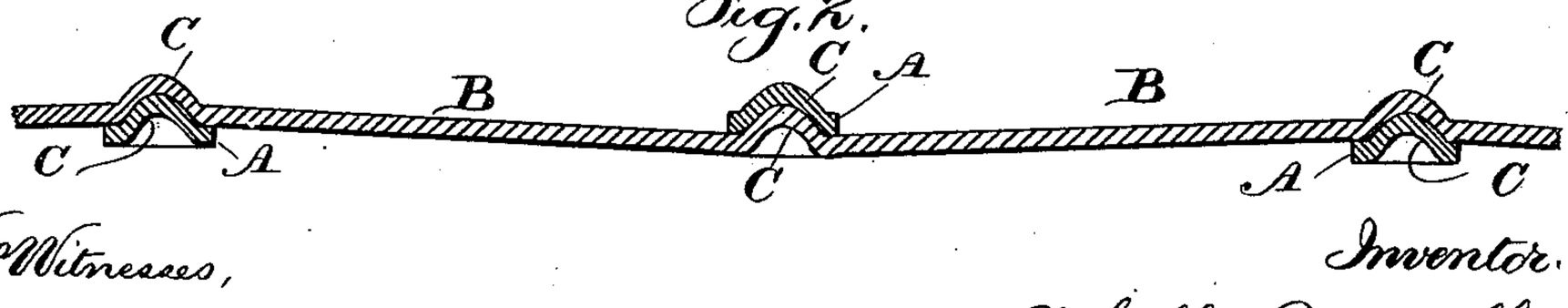


Fig. 2.



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UNITED STATES PATENT OFFICE.

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METALLIC RAILING AND GUARD.

SPECIFICATION forming part of Letters Patent No. 388,108, dated August 21, 1888.

Application filed January 16, 1888. Serial No. 260,828. (No model.)

To all whom it may concern:

Be it known that I, ACHILLE BATAILLE, of the city and State of New York, have invented an Improvement in Metallic Railings and Guards, of which the following is a specification.

Flat strips of metal have heretofore been interwoven with meshes of various sizes, and these bars have been perforated at the intersections and secured by rivets passing through the same. In this operation, however, the holes for the rivets weaken the metal strips or bars, and railings or gratings made in this manner are expensive, in consequence of the time consumed in perforating and riveting such metallic strips together.

Metallic strips have also been ornamented by projections or teats stamped up in the metal in imitation of rivets, but these projections have been made in the bars or railings that are riveted together at the intersections.

My invention is made for facilitating the construction of guards and railings; and it consists in metallic strips or bars embossed at regular intervals with hollow projections or teats, the bars being interwoven, so that the projection on one side of one bar passes into the recess upon the other side of the intersecting bar, thereby the strips or bars are held at the proper distances apart without the use of rivets, and the guard or grating can be made of any desired size and the intersecting bars occupying any desired angular position to each other, so that the meshes may be square or diamond shaped, and the appearance of the whole guard or grating is rendered neat and artistic by the regular projections at the intersections.

In the drawings, Figure 1 is an elevation of a portion of the guard or netting, and Fig. 2 is a section in larger size longitudinally of one of the strips or bars and of the crossing and intersecting bars.

The bars A and B are of any desired width or thickness, and the edges of these bars may be straight or they may be notched, scalloped, or otherwise ornamented, and the surfaces may be plain or embossed, in addition to the teats or projections, and the bars may be straight or twisted between the intersections.

The teats or projections C are stamped up in the strips or bars at regular intervals or distances apart, according to the size of the meshes between the bars, and these projections or teats are preferably conical, the conical recess on one side corresponding, or nearly so, to the conical projections on the other side, so that when the bars are laid together or interwoven the recess on one side of one bar will receive within it the projection upon the other side of the intersecting bar. These projections or teats can be made with rapidity by means of any suitable dies or rollers, and in laying the bars together they are to be interwoven at regular distances apart, and usually the projections or teats will only be at the intersections; but, if desired, there may be one one or more projections between each intersection where the meshes are large. In consequence of the bars or strips being interwoven and the projections fitting each other there is no possibility of the bars slipping from their respective places, especially when the ends of the bars or strips are firmly connected to a metallic frame-work or other suitable support, as usual in constructing guards or gratings for banks or other buildings.

I do not claim metal bars having projections upon them for ornamenting the surfaces of such bars in the manufacture of guards or railings.

I claim as my invention—

1. A guard or grating formed of straight intersecting bars interwoven at regular intervals, the bars or strips having hollow teats or projections at the intersections, setting the one within the other, to hold the bars firmly at such intersections, substantially as set forth.

2. The metallic bars or strips for ornamental gratings or guards having hollow projections or teats, the one fitting within the other, at regular intervals, adapted to form the connections at the intersections of the bars when placed together, substantially as set forth.

Signed by me this 11th day of January, 1888.

ACHILLE BATAILLE.

Witnesses:
GEO. T. PINCKNEY,
WILLIAM G. MOTT.