

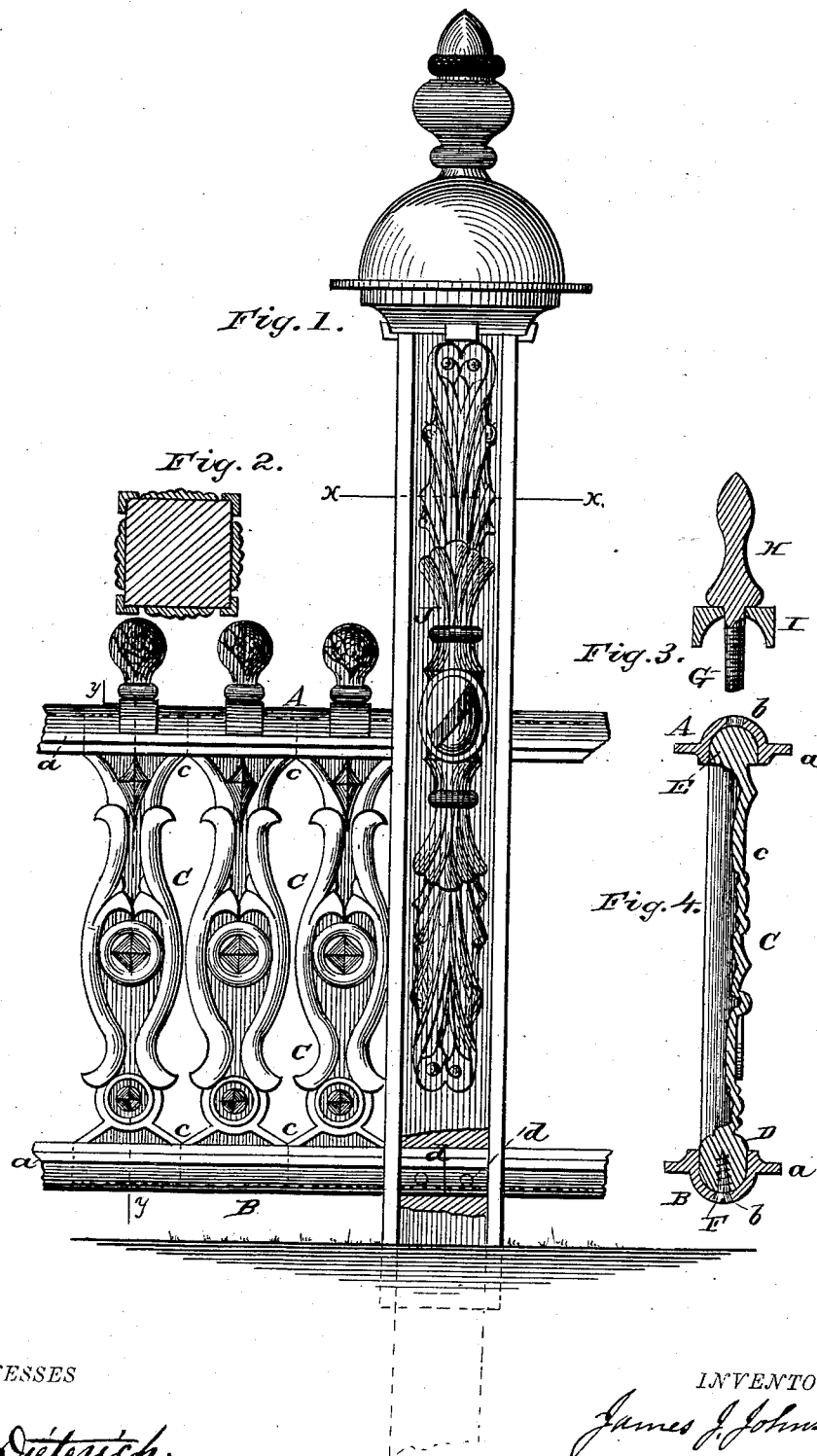
(No Model.)

J. J. JOHNSTON.

IRON FENCE.

No. 265,817.

Patented Oct. 10, 1882



WITNESSES

*Wm. L. Dietrich*  
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INVENTOR

*James J. Johnston*

# UNITED STATES PATENT OFFICE

JAMES J. JOHNSTON, OF COLUMBIANA, OHIO, ASSIGNOR TO THE UNITED STATES IMPROVEMENT COMPANY, (LIMITED,) OF SAME PLACE.

## IRON FENCE.

SPECIFICATION forming part of Letters Patent No. 265,817, dated October 10, 1882.

Application filed February 11, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES J. JOHNSTON, of Columbiana, in the county of Columbiana and State of Ohio, have invented a certain new and useful Improvement in Iron Fences; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to an improvement in iron fences; and it consists of a top and bottom rail of U-shaped wrought-iron, having side flanges, in combination with vertical rails of cast-iron, the ends of which are fitted to the groove of the top and bottom rail and secured therein by means of screws, the screw for securing the top rail to the upper end of the vertical rail being furnished with ornamental head and used in combination with a grooved base fitted to said top rail; the panels of the fence being secured in recesses in an ornamental post through the medium of pins passing transversely through said post and top and bottom rail, the corners of said post being protected by angle-iron and having its ornamentation of cast-iron, as will hereinafter more fully and at large appear.

To enable others skilled in the art with which my invention is most nearly connected to make and use it, I will proceed to describe its construction and operation.

In the accompanying drawings, which form part of this specification, Figure 1 is a side elevation of a section of my improved fence secured in position to its post. Fig. 2 is a transverse section of the post at line *x x*. Fig. 3 is a vertical section of the head of the screw used for securing the top rail to the vertical rails, also representing its relation to its grooved base. Fig. 4 is a vertical section of the fence at line *y y* of Fig. 1, excepting the ornament on the top rail, A.

Reference being had to the accompanying drawings, A B represent the bottom and top rails, which, when viewed in cross-section, are U-shaped, having side flanges, *a*, and furnished with openings *b*, for the reception of screws for securing the rails A B to the vertical rails C, the ends of which are fitted to the grooves of the rails A B, the latter being constructed of

wrought-iron by the rolling process and the former of cast-iron by the molding and casting process. The vertical rails are of uniform thickness between the parts D E—that is to say, the convexities on the front face have corresponding concavities on the rear face for the purpose of securing lightness and uniformity in thickness of the rail between the parts D E, which fit into the groove of the rails A B, forming close joints *atc.* (Indicated by dotted lines in Fig. 1.) The bottom rail, B, is secured to the part D of the vertical rail by screws F, and the top rail, A, secured to the part E of the vertical rail C by means of the screw G, having an ornamental head, H, said screw passing through a grooved base, I, fitted to the upper surface of the top rail, A. The ends of the top rail, A, and bottom rail, B, are fitted in recesses made in the post J, and secured therein by means of transverse pins *d*, as shown in Fig. 1, which post is provided with cast-iron ornaments and wrought-iron corner-pieces, and will not be further described in this specification, as said post will form the subject-matter of another application for Letters Patent bearing even date with this application.

One form of the vertical rail C is represented, but a variety of designs of said rails may be made between the parts D E, which parts in all cases must be of the construction as hereinbefore described.

A fence constructed with wrought-iron rails A B and vertical cast-iron rails C of the form shown and described will be strong, firm, light, and can be manufactured with great facility and cheaply, and at the same time highly ornamental.

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

In an iron fence, the combination of the U-shaped rails A B, having side flanges, *a*, cast-iron vertical rails C, screw G, having ornamental head H and grooved base I, and post J, substantially as hereinbefore described, and for the purpose set forth.

JAMES J. JOHNSTON.

Witnesses:

T. D. D. OURAND,  
DE WITT C. ALLEN.