

W. C. GROFF.
Iron-Fences.

No. 150,028.

Patented April 21, 1874.

Fig 1.

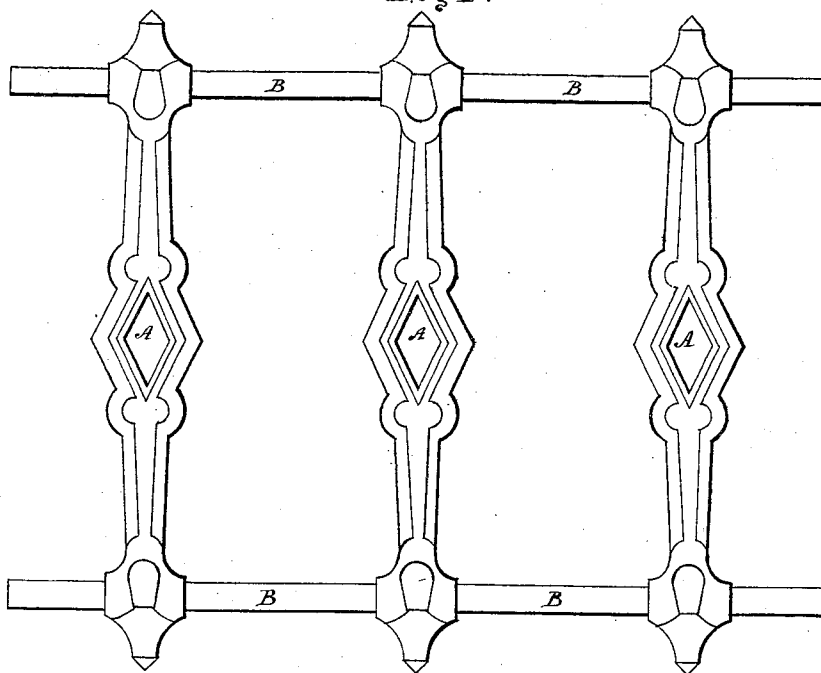
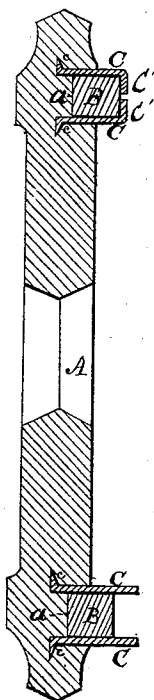


Fig 2.



WITNESSES
George P. Goodson
J. P. Connolly

By

INVENTOR
William C. Groff
Connolly Bros.,

Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM C. GROFF, OF CAMDEN, NEW JERSEY.

IMPROVEMENT IN IRON FENCES.

Specification forming part of Letters Patent No. **150,028**, dated April 21, 1874; application filed February 5, 1874.

To all whom it may concern:

Be it known that I, WILLIAM C. GROFF, of Camden, in the county of Camden and State of New Jersey, have invented a certain new and useful Improvement in Iron Railings; 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 pertains to make and use it, reference being had to accompanying drawings, which form part of this specification, in which—

Figure 1 is an elevation of a section of fence-railing with my improvements applied. Fig. 2 is a vertical section of the same, showing clamp for upper rail open, and clamp for lower rail closed.

My invention has for its object to provide a cheap, simple, and effective means for securing or clamping cast-iron railings to the cross-rails or battens of fences. The nature of my invention consists in the combination, with a cast-metal railing, of a clamp made of wrought or malleable iron, or equivalent material, which may be easily bent without breakage or fracture.

In the accompanying drawing, A A are cast-metal palings, of any suitable style or pattern. B B are the rails or battens, to which said palings are secured by means of the clamps C C, said clamps being short pieces of wrought or malleable iron, or equivalent material, made fast in the palings A A. I prefer to form their inner ends with lugs *c c*, as shown in the drawing, which effectually prevent the pieces from coming out, the cast metal, when poured into the mold, flowing around said ends, and rendering them quite homogeneous with the palings.

In order to make the palings fit more snugly and rigidly on the rails B B, I make the palings with channels *a a*, in which the rails take position, as shown. When placed in position thus, the clamps C C are bent over the rails, as shown at C' C', where these letters designate the folding-arms of the lug, embracing the latter closely, and holding the palings firmly in place.

Should it be necessary at any time to replace a broken paling, or remove one from any cause, this may be very readily effected by bending back the clamps C C, which is a much better method than sliding the palings to the end of the rail, as is necessary where cast-metal clamps or eyes are used.

I am aware that it is not new to inclose a solid metal within a molten mass; and I do not claim any new discovery in the use of cast-iron and malleable or wrought iron together; but

What I claim as my invention is—

An iron-paling fence having the wrought iron or malleable lugs C, formed with the projections *c* and folding arms C', combined with the cast palings A, said lugs being embedded in the palings without passing through, substantially as shown, and for the purpose specified.

In testimony that I claim the foregoing I have hereunto set my hand this 3d day of February, 1874.

WILLIAM C. GROFF.

Witnesses:

T. A. CONNOLLY,
EUGÈNE P. EADSON.