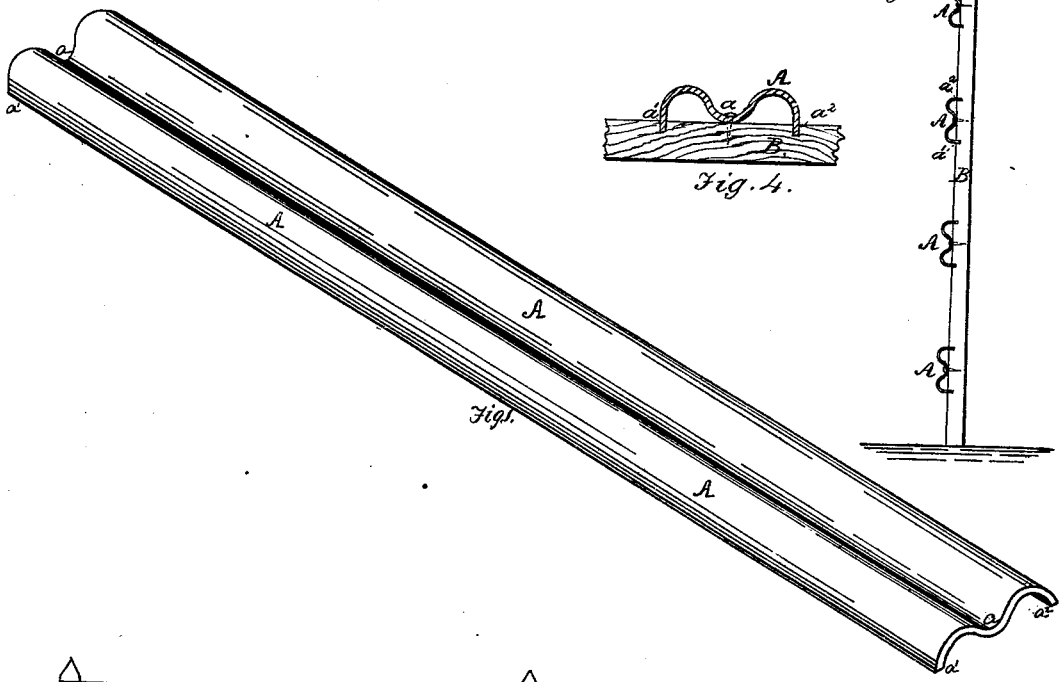
A. J. NELLIS.

FENCE.

No. 186,153. Patented Jan. 9, 1877.



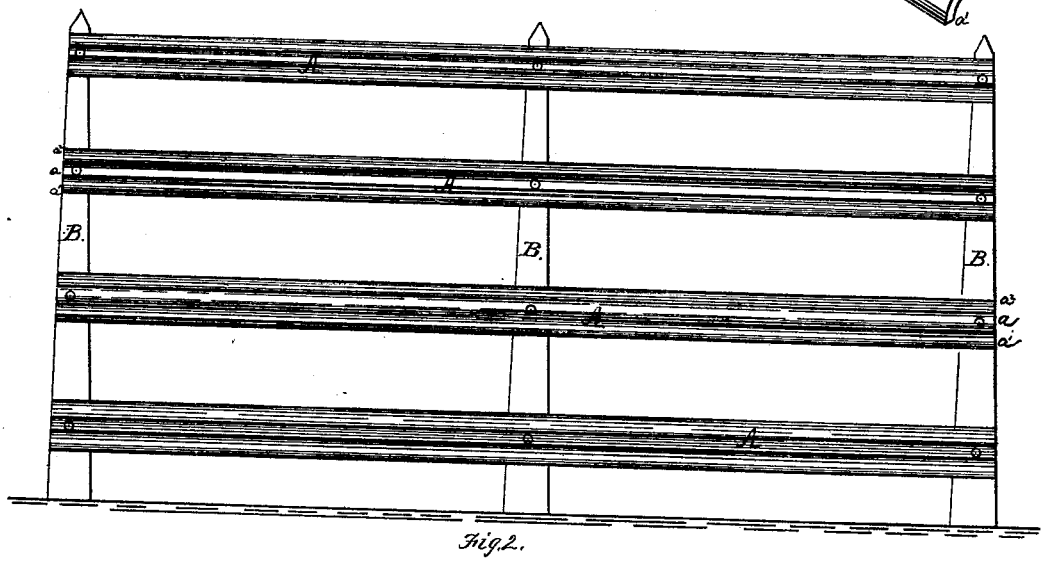


Fig. 2.

WITNESSES.

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UNITED STATES PATENT OFFICE.

AARON J. NELLIS, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN FENCES.

Specification forming part of Letters Patent No. **186,153**, dated January 9, 1877; application filed December 5, 1876.

To all whom it may concern:

Be it known that I, AARON J. NELLIS, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Yard and Field Fences; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a perspective view of a form of longitudinally-corrugated rail, employed in carrying out my invention. Fig. 2 is an elevation of a fence embodying my invention, and Fig. 3 is an end view of a fence-section illustrating my invention, and Fig. 4 is a sectional detailed view.

Like letters refer to like parts wherever they occur.

My invention relates to the construction of that class of field and yard fences, wherein corrugated metallic strips are employed; and consists in combining with suitable posts of either metal or wood a series of longitudinally-corrugated metal rails, the corrugations of the rail being so made that the edges of the strip bear against the posts, and may be made to bite into a wooden post, or will be received into a suitable recess formed in the face of a metal post, whereby the rail is braced and strengthened against weight or strain, and a cheap and effective fence is obtained without complicated posts or the use of stringers.

I will now proceed to describe my invention, so that others skilled in the art to which it appertains, may make and use the same.

In the drawing, A indicates the metallic fence strip or rail secured to posts B by a nail or screw. The strip or rail is preferably of iron or steel, though other metals may be employed, and is formed from a strip of metal corresponding in width to what is known in the trade as "hoop iron."

The corrugations may be formed by passing the strip of metal through a pair of suitably-grooved rolls. There are usually two corrugations on the one side, and one on the other, thus forming three points of contact or bearings between the rail and post, one *a* in the middle, through which the nail or screw may pass to secure the rail to the post, and the other two, a^1 a^2, formed by the edges of the strip which meet the post at about right angles. More corrugations are not necessary, but may be given to the strip if desired, provided, in all cases the outer edges of the strip are turned in one direction, as at a^1 a^2, to brace against the post.

When wooden posts (which are preferable) are used, the edges a^1 a^2 are driven from one-sixteenth to one-eighth of an inch into the post, and the same result is obtained when metal posts are employed by forming shoulders on, or recesses in, the face of the post for the reception of the edges of the rail, in either case bracing the rail so that its power to resist a superimposed weight is greatly increased.

The advantages of my improved corrugated metallic field-fence are cheapness, lightness, durability, strength, and simplicity of construction.

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

The corrugated metallic rails, having the bearing-edges a^1 a^2, in combination with the posts B, constructed substantially in the manner and for the purpose described.

In testimony whereof, I the said AARON J. NELLIS, have hereunto set my hand.

AARON J. NELLIS.

Witnesses:
F. W. RITTER, Jr.,
T. B. KERR.