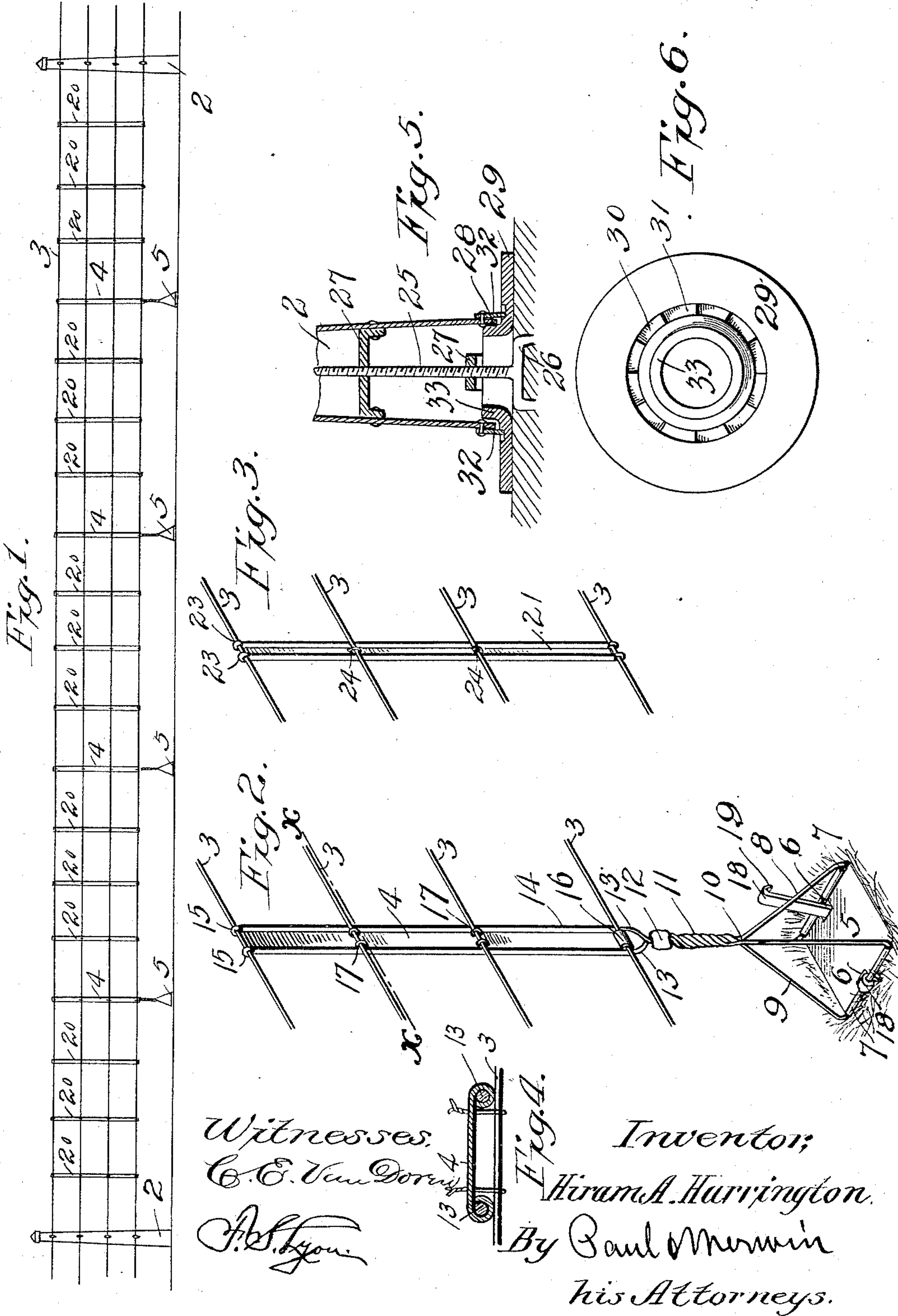


(No Model.)

H. A. HARRINGTON.
METALLIC FENCING.

No. 485,741.

Patented Nov. 8, 1892.



UNITED STATES PATENT OFFICE.

HIRAM A. HARRINGTON, OF ANOKA, MINNESOTA.

METALLIC FENCING.

SPECIFICATION forming part of Letters Patent No. 485,741, dated November 8, 1892.

Application filed May 10, 1892. Serial No. 432,428. (No model.)

To all whom it may concern:

Be it known that I, HIRAM A. HARRINGTON, of Anoka, in the county of Anoka and State of Minnesota, have invented certain Improvements in Metallic Fencings, of which the following is a specification.

My invention relates to improvements in metallic fences; and its object is to provide a simpler, a cheaper, and a stronger system of intermediate supports for the wires of metallic fences, thereby dispensing with at least half of the metallic posts ordinarily employed, and at the same time furnishing a fence fully as strong and durable as those heretofore constructed and of a much better appearance.

The invention consists, in general, in the constructions and combinations hereinafter described, and particularly pointed out in the claims.

The invention will be more readily understood by reference to the accompanying drawings, in which—

Figure 1 shows a section of fence embodying my invention. Fig. 2 is an enlarged perspective view of one of the main supplementary supports. Fig. 3 is a perspective view of one of the vertical tie-slats. Fig. 4 is an enlarged cross-section on the line *xx* of Fig. 2. Fig. 5 is a vertical section taken through the base of the metallic post and showing means for holding the same against rotation. Fig. 6 is a plan view of the circular ground-plate or base of the post.

As shown in the drawings, 2 2 represent posts arranged at a distance of about fifty feet apart and made up of sheet metal, in conformity with my application numbered 407,011, dated September 23, 1891, and filed in the United States Patent Office October 1, 1891, and allowed February 23, 1892. The several wires 3, which may be of any number, are strung upon the posts and are supported at intermediate points, preferably at about every ten feet, by the uprights 4, having the base-plates 5. The construction of one of these supports is plainly shown in Figs. 2 and 3, where it will be seen that the plate 5 is of sheet metal, having the notches 6 at opposite edges and the curled edges 7, which engage the straight lower sides of the wire loops 8 and 9, respectively. The upwardly-projecting parts

of these loops are bent inwardly to an apex 10, and from thence coiled tightly about one another, as shown at 11. One wire loop is short and has its upper ends soldered at 12 to the wires of the other loop, which loop has the long upwardly-projecting strands 13, which pass up through the curled part 14 of the plate or strip of sheet metal 4, this construction being most plainly shown in Fig. 4. At the top the wires have their ends 15 bent around the top wire 3 of the fence, thus holding the plate or strip 4 in place. At the bottom the tongue 16 of the strip is curled about the lower wire of the fence to fasten the same, and the intermediate wires are fastened upon the strips by the short wires 17, which pass through holes provided therefor in the strip 4, and have their outer ends coiled together to firmly support the wires 3. The base of each support is secured upon the ground by two pegs 18, having the hooked upper ends 19 and driven crosswise down through the slots or notches 6, the hooks engaging the lower ends of the main loops of wire. Between each pair of the supplementary supports I preferably provide one or more of the vertical slats 20. The slats are made up in much the same manner as the upper part of the supplementary support, each consisting of a strip of sheet metal having its edges formed about two vertical wires 23, the upper and lower ends of which are bent around the top and bottom wires of the fence. The intermediate wires are each fastened by a single loop 24 of soft wire, extending through the metal strip 21. When constructing a fence of this pattern, much annoyance has been occasioned by the twisting of the metallic post 2 upon the threaded studs 25 of the ground-fork 26, upon which the post is secured by the two internal cross-bars 27. To obviate this twisting, I place beneath the lower end 28 of each post an iron base-plate 29, having the annular groove 30, provided with the ratchet-teeth 31, and on the lower end of the post arrange the gravity-pawls 32 to engage the ratchets and thereby prevent the posts from becoming loose. On the inside of the plate is an annular collar or shoulder 33, to fit within the post and prevent the lower edges of the same from being indented.

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

1. The combination, with the main posts, of the wires strung thereon, the supplementary supports having the flat sheet-metal bases 5, means for securing said bases on the ground, and means for attaching the wires to the upper parts of said supports, substantially as described.

2. The combination, with the main posts and the wires strung thereon, of metallic slats consisting of the strips 21, the vertical wires 23 embraced thereby, the ends of said wires being secured upon the fence-wires, and means for attaching the intermediate fence-wires to said strips, substantially as described.

3. The combination, with the fence-wires, of the supplementary supports consisting of the metallic strip 4, the two metallic loops 8 and 9, the upper ends of one of said loops being embraced in the curled edges of said strip, the curled lower end 16 of the strip, said loops twisted about one another, the plate 5, secured between the lower ends of said loops and having the notches, and the metallic pegs

18, extending therethrough and having the hooked ends, substantially as described.

4. The combination, with the wires 3, of the strip 4, the short loops 17 for fastening the wires thereon, the main loops 8 and 9, twisted together at 11 and having the straight lower sides, said loops soldered at 12, the metallic base-plate 5, having the curled edges 7, the hooked pegs to secure the base and the lower end of said loops, the upper ends 13 of one of said loops embraced by the curled edges of the strip 4, and means for securing the top and bottom wires thereon, substantially as described.

5. The combination, with the base of the metallic post, of a vertical fastening therefor, the base-plate 29, having the ratchet-feet 31, and the gravity pawl or pawls 32, provided on the post to engage the same, substantially as described.

In testimony whereof I have hereunto set my hand this 4th day of May, 1892.

HIRAM A. HARRINGTON.

In presence of—

HIRAM THORNTON,
GEO. GEDDES.