

(No Model.)

2 Sheets—Sheet 1.

B. F. RANDALL.
BARBED METALLIC FENCING.

No. 359,178.

Patented Mar. 8, 1887.

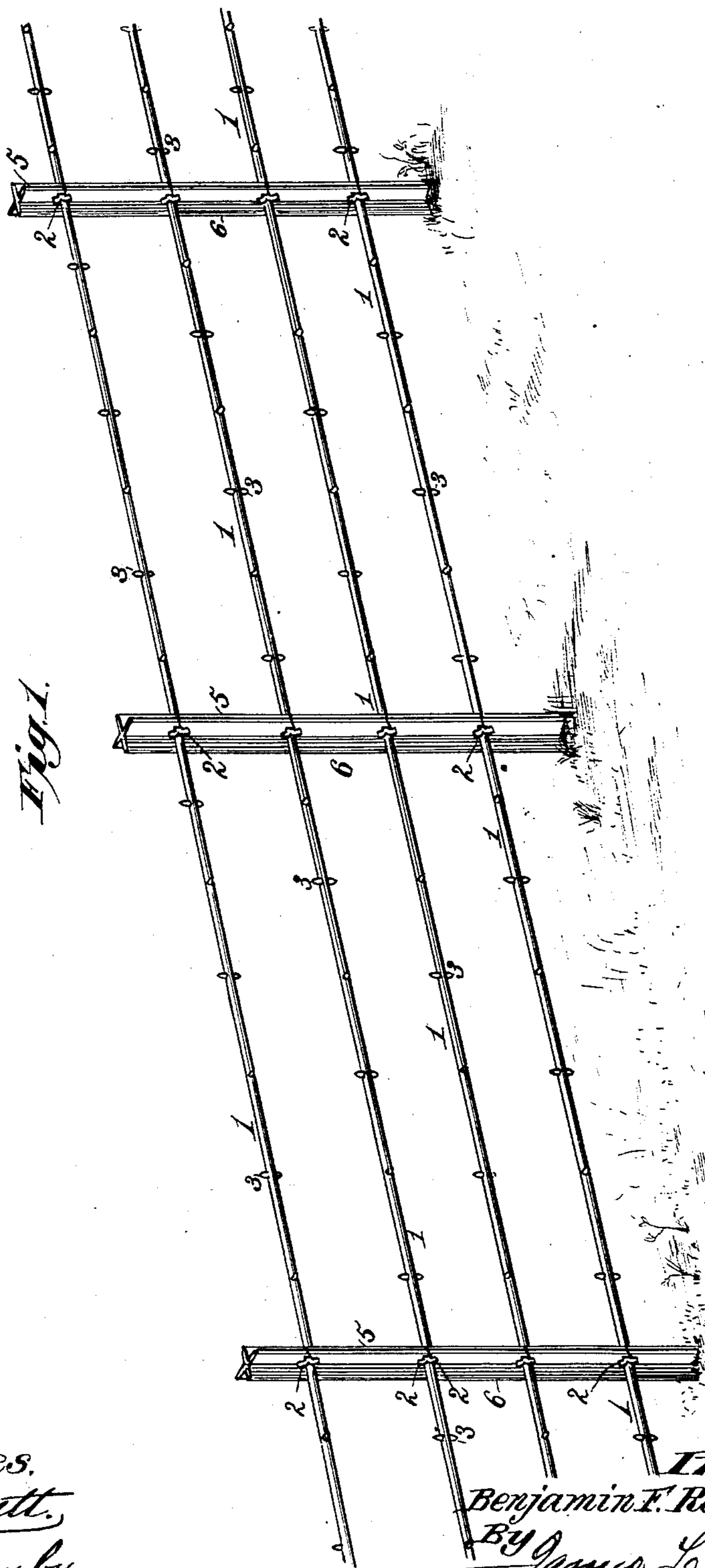


Fig. 1.

Witnesses.
Robert Couett.
Dennis Lumby.

Inventor:
Benjamin F. Randall.
By James L. Norris,
Atty.

(No Model.)

2 Sheets—Sheet 2.

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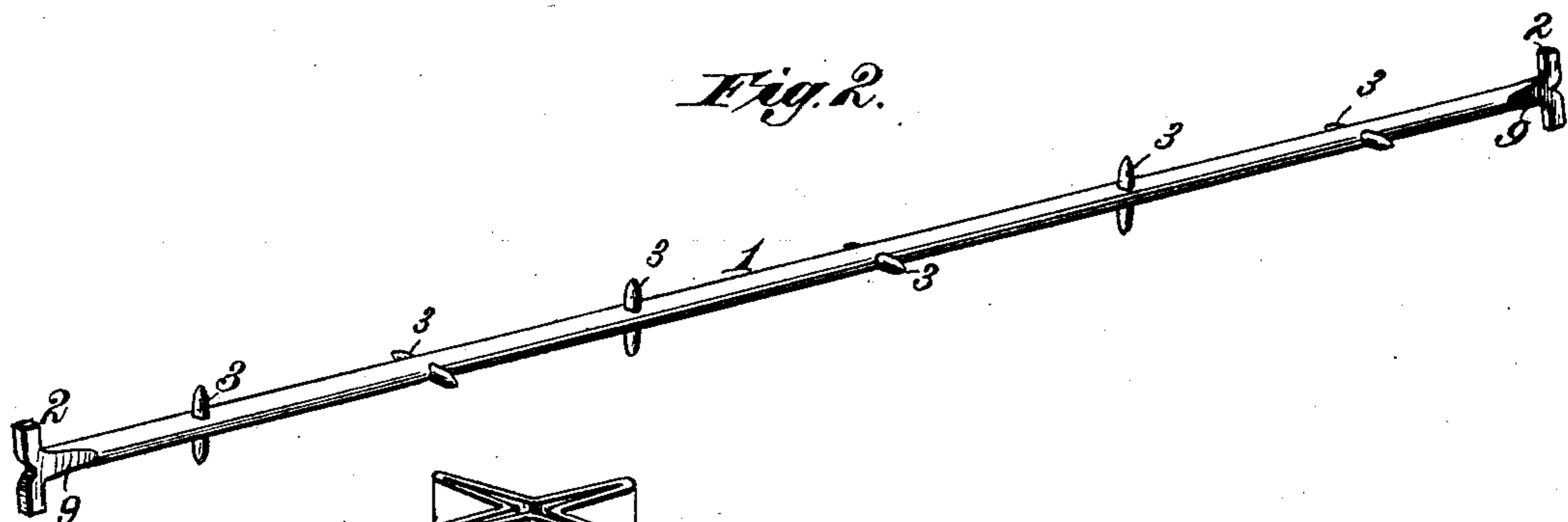


Fig. 3.

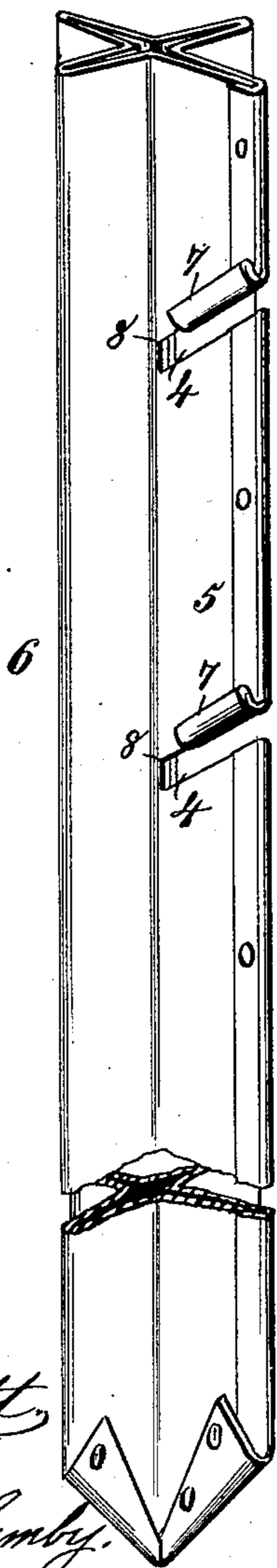
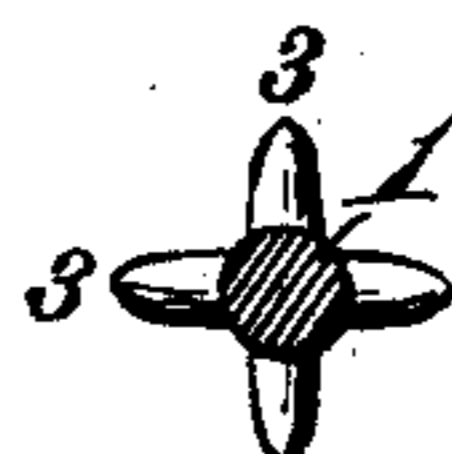


Fig. 4.



Witnesses.
Robert Everett

Dennis Kimby.

Inventor.
Benjamin F. Randall.

By James L. Norris.

Atty.

UNITED STATES PATENT OFFICE.

BENJAMIN F. RANDALL, OF FALL RIVER, MASSACHUSETTS.

BARBED METALLIC FENCING.

SPECIFICATION forming part of Letters Patent No. 359,178, dated March 8, 1887.

Application filed December 24, 1886. Serial No. 222,480. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN F. RANDALL, a citizen of the United States, residing at Fall River, in the county of Bristol and State of Massachusetts, have invented new and useful Improvements in Metallic Fencing, of which the following is a specification.

This invention has for its objects to provide a novel construction of metallic fencing which will turn stock without lacerating or tearing the animals, and which is durable, economical in construction, readily and easily constructed, comparatively rustless, capable of resisting fire, and which will permit the convenient and rapid removal and replacement of a section when desired to admit of the passage of persons, vehicles, or stock.

To accomplish such objects my invention consists in a rolled metallic rail provided with a cross or T-shaped head at each end and formed integral with stiff pointed spurs throughout its length between such heads and projecting radially or laterally in opposite directions, the rail-heads and spurs being galvanized to render the same comparatively rustless and more durable, and the heads being adapted to detachably engage slots in flanges on metallic fence-posts, which are likewise galvanized.

The invention also consists in a metal fence comprising metal fence-posts provided with flanges having slots and rolled metal rails having cross or T-shaped heads at their ends and formed integral with stiff pointed spurs throughout their length between the heads and projecting radially or laterally in various directions, the said heads of the rails detachably interlocking with or engaging the slotted flanges of the posts, whereby they are firmly secured in place, but can be rapidly and conveniently detached to remove any section between two posts for the passage of persons, vehicles, or stock.

The invention is illustrated by the accompanying drawings, in which Figure 1 is a perspective view of part of a fence constructed and erected according to my invention; Fig. 2, a detail view on a larger scale of one of the rolled metal rails; Fig. 3, a detail view on a larger scale of one of the metal fence-posts, and Fig. 4 a cross-sectional view of the rail.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, where—

The numeral 1 indicates a metallic rod, or what I term a "rail," having at each end a cross or T-shaped head, 2, and having stiff pointed spurs 3 throughout its length between such heads and projecting radially or laterally in various directions, the object of these spurs being to turn stock without danger of lacerating or tearing the animals. For this purpose the spurs are stiff and pointed, but are not sharp like the ordinary wire barbs on fence-strands of wire, as such are exceedingly dangerous and very injurious to stock. The rails having the characteristics described are rolled from malleable iron or other material, and the heads 2 and spurs 3 are formed integral with the body of the rail, so that the latter can be economically manufactured on a large scale.

The rails are all made of one standard length, each about sixteen or seventeen feet long, more or less, and I purpose having the machinery for manufacturing the rails so constructed that a complete rail will be turned out at every revolution of the rolls. The rails, having been made as set forth, are galvanized by any suitable process, as by subjecting them to the action of a bath of melted zinc and sal-ammoniac, so that the surfaces of the rails, spurs, and heads become alloyed with zinc. I have shown the rails as circular in cross-section between their cross or T-shaped heads; but they can be rolled into any form in cross-section.

The fence-posts 6 are composed of a sheet of galvanized iron folded to form radial flanges, one flange, 5, having inclined slots 4 extending from the outer edge of such flange inward to the other flanges. The upper edge of each slot is furnished with a flexible lip, 7, terminating at a short distance from the point where the flange 5 joins the other flanges to create a square or substantially square recess, 8. The ends of the rails adjacent to the cross or T-shaped ends 2 are squared and flattened, as at 9, and in erecting the fence the adjacent ends of two rails are inserted in one of the slots 4, to fill the recess 8, after which the lip 7 is bent down to fill the outer portion of the slot, thereby retaining the rails in place and hold-

ing them against outward movement in the slot. In this way the cross-heads at the adjacent ends of two rails will bear, respectively, against the opposite sides of the flange 5 of the fence-post.

The interlocking of the rail-heads with the flanges of the fence-posts prevents the latter from moving out of their perpendicular positions, and the whole constitutes a strong, durable, and economical metallic fence of the barbed kind, which will turn stock without lacerating or tearing the animals.

I do not broadly claim a rolled metal fence wire or rod formed integral with projecting spurs or barbs; nor do I broadly claim fence-rails having heads at their ends to interlock with fence-posts, as such, broadly, are not new with me.

Having thus described my invention, what I claim is—

1. The rolled metal fence-rails of standard length, each formed integral with a T-shaped head at each end and with stiff pointed spurs projecting laterally in various directions throughout the length of the rail between the said heads, substantially as and for the purposes described.

2. The combination of fence-posts, each provided with a radial flange having slots extending from its edge inwardly, with the rolled metal fence-rails of standard length, each formed integral with a T-shaped head at each

end, and with stiff pointed spurs projecting laterally in various directions throughout the length of the rail, the said rails being arranged in the slots of the flange, with the adjacent T-shaped heads of every two rails in line in two fence-sections bearing directly against the opposite sides of the one slotted flange of a post, and all the rails being removable laterally through the slots of the posts, substantially as and for the purposes described.

3. The combination of the rolled metallic fence-rails, having stiff projecting spurs along their length and provided at each end with the cross-head 2, with the fence-posts, each having the radial flange 5, provided with the slot 4, lip 7, and a recess at the inner end of the lip, substantially as and for the purposes described.

4. The combination of the rolled metallic fence-rails, having stiff projecting spurs along their length and provided at each end with a cross-head, 2, and a flattened square portion, 9, adjacent to such cross-head, with the fence-post having the radial flange 5, provided with the slot 4, lip 7, and square recess 8 at the inner end of the lip, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

BENJAMIN F. RANDALL.

Witnesses:

THOS. TAYLOR,
W. M. COLEMAN.