(No Model.)

H. MATER.

FENCE.

No. 382,178. Patented May 1, 1888.

Fig. 1.

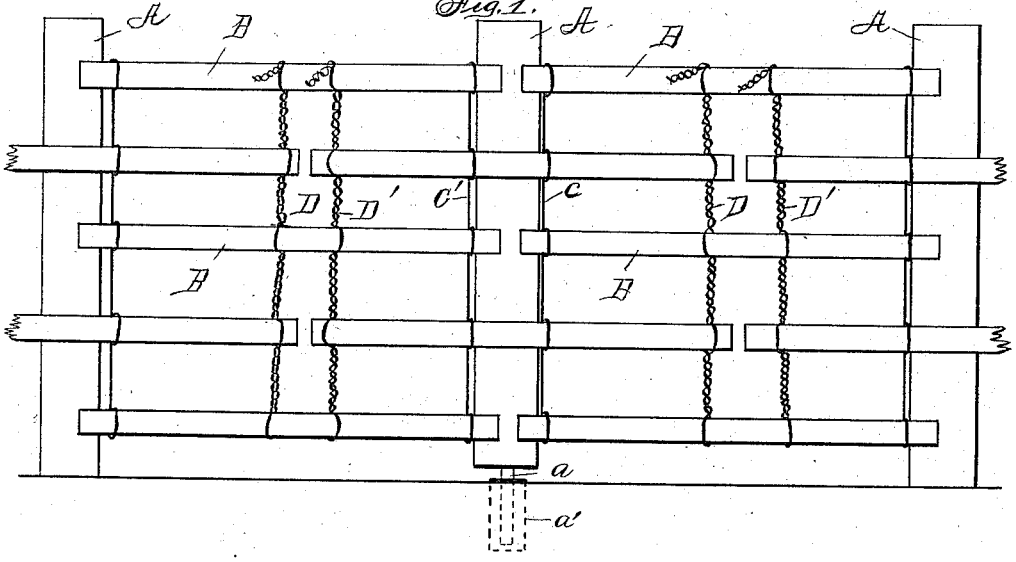


Fig. 2.

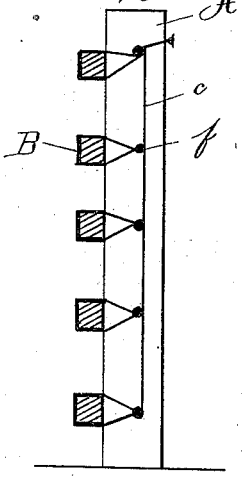
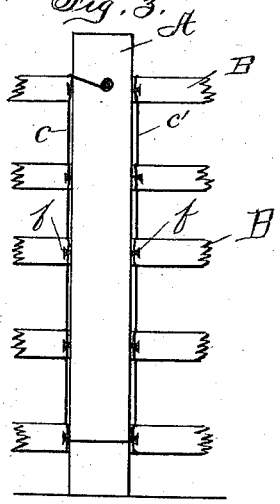


Fig. 3.



Witnesses.
E. C. Duffy
C. M. Merle.

Inventor
Henry Mater.
By his Attorney.
O. E. Duffy

UNITED STATES PATENT OFFICE.

HENRY MATER, OF LAGRO, INDIANA.

FENCE.

SPECIFICATION forming part of Letters Patent No. 382,178, dated May 1, 1888.

Application filed February 13, 1888. Serial No. 263,830. (No model.)

To all whom it may concern:

Be it known that I, HENRY MATER, of the town of Lagro, in the county of Wabash and State of Indiana, have invented certain new and useful Improvements in Fences; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to an improvement in fences, and more particularly to combined rail and wire fences.

The object of my invention is to provide a rail-and-wire fence the rails and posts of which shall be so bound and secured together by wire or other fastenings that the fence shall be exceedingly strong, cheap, and durable, and yet shall be more simply and readily constructed and more economical than the fences of this class heretofore in use; and a further object is to provide a fence a portion or section of which can be replaced or repaired and taken down or broken for the passage of a wagon or the like without taking down or disturbing the remainder of the fence, said fence being so built or secured together that it is not necessary to have all the rails of the same length or size.

With these ends in view my invention consists in certain novel features of construction and combinations of parts, more fully described hereinafter, and particularly pointed out in the claims.

Referring to the accompanying drawings, Figure 1 is a front elevation of a portion of my improved fence. Fig. 2 is a side view of a post, the rails being broken off to show the position of the binding or supporting wires on the post; and Fig. 3 is a rear elevation of a post and the rails secured to the same.

In the drawings, the reference-letter A represents the posts of the fence, every other one of which is firmly anchored or buried in the ground a portion of its length, while the alternate posts are removably located in position by means of a downwardly-extending pin or guide, *a*, which is adapted to enter and rest in the interior of a base or support, *a'*, preferably formed by a hollow tile or drain-pipe buried in the ground in an upright position, thus forming a cheap and effective base for the alternate posts and preventing their ends from decaying.

B represents the horizontal rails of the fence, every alternate one of which in the vertical series is secured to the posts at its ends or extends from one post to the next, while the intervening rails are secured to the posts at or about their central portions, or at a point between their ends, and their ends extend to points between the posts, as shown in Fig. 1. It is preferred that the top and bottom rails extend from post to post and be secured to the same at their ends. The rails are securely bound in position and to the posts by the binding-wires *c c'* upon each side of the posts, and between the posts the rails are bound together by the binding-wires D D'. A series of laterally-projecting pins, *f*, are located upon two opposite sides of each post, one pin being preferably placed behind each post, as shown in Fig. 2.

In constructing the fence the binding-wires at the posts are preferably secured at the bottom of each post and the bottom rail is placed in position. The binding-wire at those sides of the posts over which the ends of the rails extend are then wrapped around one of the holding-pins on each side of the post and then outwardly around the rail and then back around the same pin again. The rail above is then placed in position and the wires are passed upwardly around the holding-pins behind that rail, then outwardly around the rail, and then back around the pins again. Thus the binding-wires at the posts are preferably wrapped around a pin, then outwardly around a rail, and then back again around the same pin, and so on until all the rails have been firmly and securely bound together and to the posts. The upper free ends of the wires are then secured to the posts.

The free ends of the intervening rails are secured to the posts at their central portions and are bound together and to the middle portions of the other alternate rails by the binding-wires D D', which are looped around the bottom rail, twisted, and then looped around the end of the next rail, and so on, the wires being looped around each rail and twisted between the rails, as clearly shown.

It will be readily seen that a fence constructed as herein set forth will be extremely strong and durable, for the whole fence is woven and bound together by the binding-wires, by securing the alternate rails to the posts at their ends and the intervening rails at their middle portions, and then securing the middle portions of the alternate rails and the free ends of the intervening rails together; but, although the fence is so strongly and firmly woven together, it is very elastic and will give and not break when great pressure is exerted upon it, and a section of the fence can be readily taken out by loosening several of the binding-wires or pulling the rails out of the loops and then lifting one of the removable posts from its hollow base or anchor.

It is evident that one wire can be used for the binding-wire on each side of the posts and that one wire can be used for each series of binding-wires between the posts.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. The herein-described fence, consisting of posts, horizontal rails secured to said posts, every alternate rail extending from one post to another and secured to the same at its ends, and the intervening rails being secured to the posts at or about their middle portions, and binding-wires for securing the rails to the posts and for securing the free ends of the intervening rails together and to the middle portions of the alternate rails, substantially as described.

2. The herein-described fence, consisting of posts, every alternate post being firmly and securely anchored in the ground or in position, and the intervening posts being removably anchored in position, horizontal rails secured to the posts, every alternate rail extending between the posts and secured to the same at its ends, and the intervening rails secured to the posts at or about their middle portions and having their ends extending part of the distance between the posts, and binding-wires for securing the rails together and to the posts and for securing the intervening rails together and to the alternate rails between the posts, substantially as described.

3. The herein-described fence, consisting of posts and rails, every alternate rail in the vertical series secured to the posts at its ends, and the intervening rails secured to the posts at or near their middle portions and having their ends extending part of the distance between the posts, and binding-wires securely looped around the rails and secured to the posts, and binding-wires looped around the rails between the posts and securing the free ends of the intervening rails together and to the alternate rails, substantially as described.

4. The herein-described fence, consisting of upright posts, every alternate post of the fence being firmly and securely anchored in position, and the intervening posts being removably anchored in position, horizontal rails secured to the posts, every alternate rail of the vertical series extending the distance between the posts and secured to the same at its ends, and the remaining intervening rails of the vertical series being secured to the posts at or about their middle portions with their ends extending part of the distance between the posts, binding-wires at the posts looped around each rail in the vertical series and secured to the posts opposite each rail, and binding-wires between the posts securing the free ends of the intervening rails together and to the middle portions of the alternate rails, said last-mentioned wires being looped around each rail and twisted between the rails, substantially as set forth.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

HENRY MATER.

Witnesses:
JOHN H. DICKEN,
WARREN BIGLER.