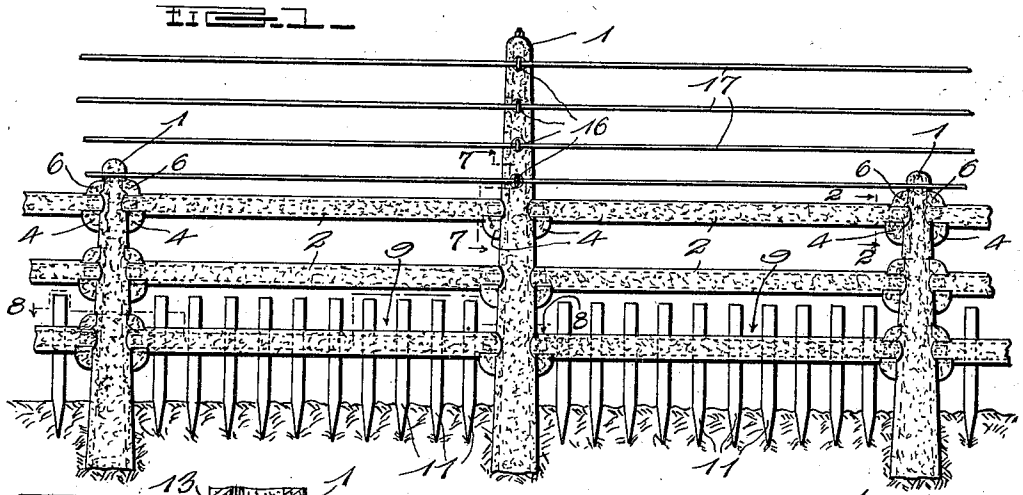
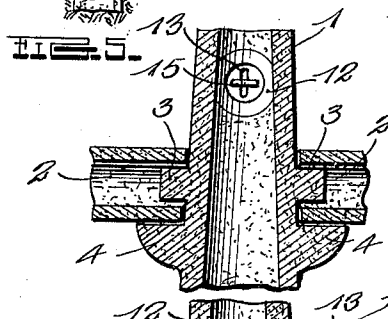
J. C. HAMILTON.

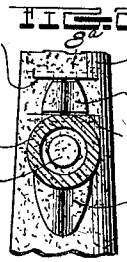
CONCRETE FENCE.

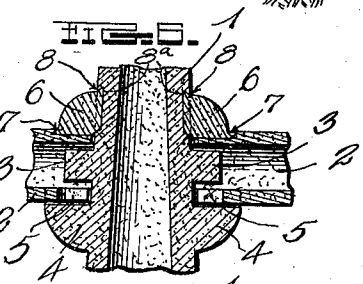
APPLICATION FILED APR. 29, 1920.

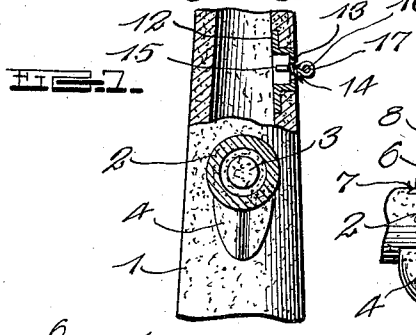
1,386,928. Patented Aug. 9, 1921.

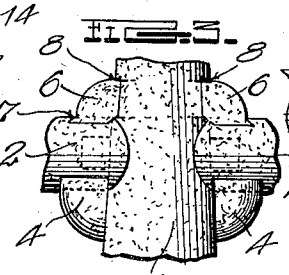


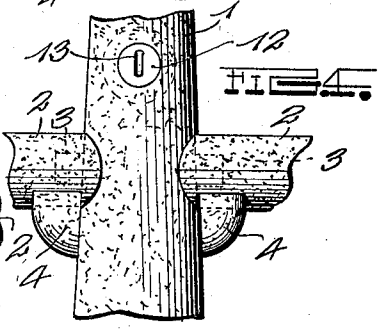


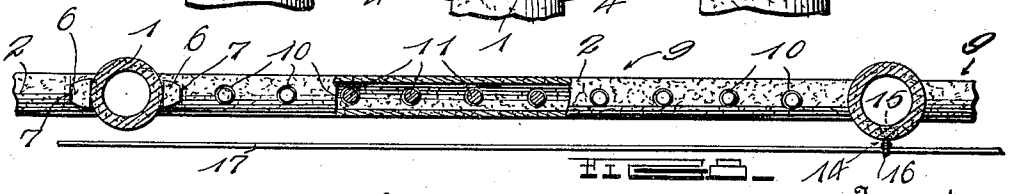


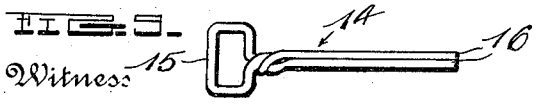












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UNITED STATES PATENT OFFICE.

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CONCRETE FENCE.

1,386,928. Specification of Letters Patent. Patented Aug. 9, 1921.

Application filed April 29, 1920. Serial No. 377,681.

To all whom it may concern:

Be it known that I, JOHN C. HAMILTON, a citizen of the United States, residing at Joliet, in the county of Will and State of Illinois, have invented certain new and useful Improvements in Concrete Fences; and I do 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 appertains to make and use the same.

This invention relates to an improved concrete fence.

The object of the invention is to generally improve upon and simplify the construction of such a fence by providing one of great durability, which is of such construction that it may be put up or taken down very easily and quickly.

Another object of the invention is to provide a fence which is especially adapted for surrounding fields and the like in which cattle and stock are kept, the construction of the fence being such that it will prevent possible escape of either small or large animals.

A further object of the invention is to provide a fence which includes especially designed posts which are such that they will permit wire to be used, or rails, or both. Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same;—

Figure 1 is an elevational view of a fence constructed in accordance with my invention.

Fig. 2 is an enlarged detail sectional view taken on the line 2—2 of Fig. 1, looking in the direction of the arrows.

Fig. 3 is an elevational view of a portion of one of the posts, showing the manner in which one of the ends of the rails is associated therewith.

Fig. 4 is a view similar to Fig. 3, showing the manner in which the other ends of the rails are attached.

Fig. 5 is a vertical sectional view of Fig. 4.

Fig. 6 is a vertical sectional view of Fig. 3.

Fig. 7 is an enlarged detail view taken on the line 7—7 of Fig. 1.

Fig. 8 is a view taken on the line 8—8 of Fig. 1.

Fig. 9 is a detail view of one of the wire anchoring members.

In the drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 1 indicates the posts, and 2 designates the rails which are detachably connected therewith. These parts are made of concrete and are preferably hollow, the rails being of cylindrical formation. Some of the posts will be of a greater height than others, to serve a purpose to be hereinafter more fully explained. To obtain the detachable connection of the rails with a post, I provide the latter on its opposite sides with integral projections 3, close to which and beneath which are other lugs or projections 4, which constitute seats for the opposite ends of the rails. One of the ends of each rail is provided with a notch 5 which is adapted to be brought down over a lug 3 so as to bear on the adjacent seat 4. It is to be stated here, that I prefer to make the upper surfaces of the seats 4 concave, so as to prevent lateral shifting of the rails.

In order to retain the rails in position I provide novel retaining means, which is such that it will permit the rails to be readily removed whenever desired. This means consists of cement blocks 6 of suitable shape, which are fitted in undercut recesses 7 and 8 formed in the notched ends of a rail and the adjacent post. In order to insure against displacement of this block, I provide it with portions 8^a which coact with the inclined walls of the recesses 7 and 8 in the manner more clearly shown in Fig. 6.

As before stated, my fence is more particularly designed to surround fields in which cattle are kept. For this reason I have provided means to prevent small animals from escaping from the field. To this end I provide the lowermost rail 9 with verticaly arranged holes 10 through which I extend pickets or stakes 11. This construction will prevent small animals from escaping as they would otherwise do.

I have also intimated in the foregoing de-

scription that some of the posts 1 are of different heights from the others, that is, some of them will be decidedly high. It is the purpose of this construction to permit the use of wires, in order to increase the height of the fence, without the employment of additional expensive concrete rails. In carrying out this feature of my invention I have devised novel means whereby the line wires may be readily attached to a concrete post. This means is disclosed more particularly in Fig. 7, wherein it will be noted that I embed plates 12 in the higher posts near their upper ends. Each of these plates is provided with a vertically arranged slot 13, with which a wire anchoring member, designated as a whole by the numeral 14, is detachably connected. Each of the members 14 is made from a single piece of wire which is bent upon itself to form a head 15, which is adapted to be inserted through the vertical slot 14 and turned crosswise of the same so as to retain the anchoring member in position on the post. The free ends 16 of the wire will be twisted in a suitable manner around the line wires 17. This construction is extremely advantageous in that it will permit the line wires to be easily and readily attached to the post by any unskilled persons. It also serves to decrease the expense of the employment of additional concrete rails. This construction also serves to increase the height of the fence so as to prevent the animals from jumping over the same.

In putting up the fence, the hollow posts will be set in the ground in a manner so that the lugs 3 and seats 4 of the respective posts will be opposite one another as shown in Fig. 1. The rails will be placed in position, first by placing the unnotched end of the rail in position. Then, the other end of the rail may be placed in position by bringing the notch 5 in such a position as to permit it to be brought down and over the lug 3. When in this position the rail will not become readily displaced. However, the retaining means used, serves to prevent any possible displacement of the rail, which might occur. It is obvious that in making use of this retaining means it is only necessary to slide the blocks 6 into the notches 7 and 8. When once in position these blocks will not come out. However, they may be readily knocked out by a hammer when it is desired to remove one of the rails. I have found it convenient, in making use of the stakes 9, to place the lowermost rail in position first. The reason for this is obvious.

In order to insure that the reader thoroughly understands the manner in which the wire anchoring member is used, I will again briefly describe it. First, the head 15 of this member is inserted through the slot 13 in the plate 12, whereupon the member is rotated so that the head will assume position crosswise of the slot. It will then be in position for use. In use, the line wire is stretched in front of the post in the usual way, and the free ends of the member 14 are twisted around it.

From the foregoing description taken in connection with the accompanying drawings, it is believed that the manner of using and the construction of my fence and all its parts is clear, therefore, further description is deemed unnecessary.

It is to be understood that the form of my invention herein shown and described is to be taken as the preferred form of the same, and that various minor changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

I claim:

1. In combination, a fence post and a horizontal rail detachably connected thereto, said rail being provided at one of its ends and in its upper side with a shallow recess extending transversely thereof, the post adjacent the recessed end of the rail being also provided with a recess communicating with the first named recess, and a retaining block fitted in said recesses, serving to hold the rails in place.

2. In combination, a fence post and a horizontal rail detachably connected thereto, said rail being provided at one of its ends with a recess, the wall of which is undercut, the post adjacent said recessed end of the rail being also provided with a like recess, and a retaining block having reduced ends extending into said undercuts and serving to retain the rail in place.

3. In combination, a cylindrical concrete post provided on one side with a pair of alined vertically spaced integral lateral projections, the upper one of which is comparatively small and the lower one of which has its upper face concaved, forming a seat, and a hollow horizontal cylindrical rail having a concaved end fitting snugly against the curved contour of said post and resting on said seat, being provided in its bottom face near said concaved end with a notch for passage of said upper projection.

4. In combination, a plurality of concrete posts and a horizontally disposed hollow rail, the posts being provided on adjacent sides with integral projections, close to and directly beneath which are other relatively large projections constituting seats, the upper faces of the latter being concaved, said rail being provided at one end and in its bottom face with notches fitted over the first named projections thus permitting the rail to bear on the concaved faces of said seats, the rail being also provided at one of its ends and in its top face with a transverse recess, the wall of

which is undercut, the posts adjacent the recessed ends of the rail being also provided with a like recess, and a rail retaining block disposed in said recesses, said block being provided with reduced end portions extending beneath the undercut walls of the recesses.

5. A fence composed of posts between which are detachable hollow, cement rails, arranged one above the other, the lowermost rail being provided with vertical holes which extend therethrough, and pickets extending through said holes into the ground.

In testimony whereof I have hereunto set my hand.

JOHN C. HAMILTON.