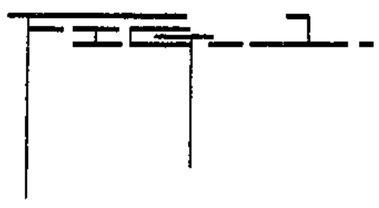
(No Model.)

G. J. BROWN.

FENCE.

No. 438,402. Patented Oct. 14, 1890.



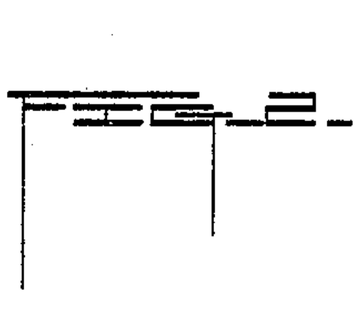
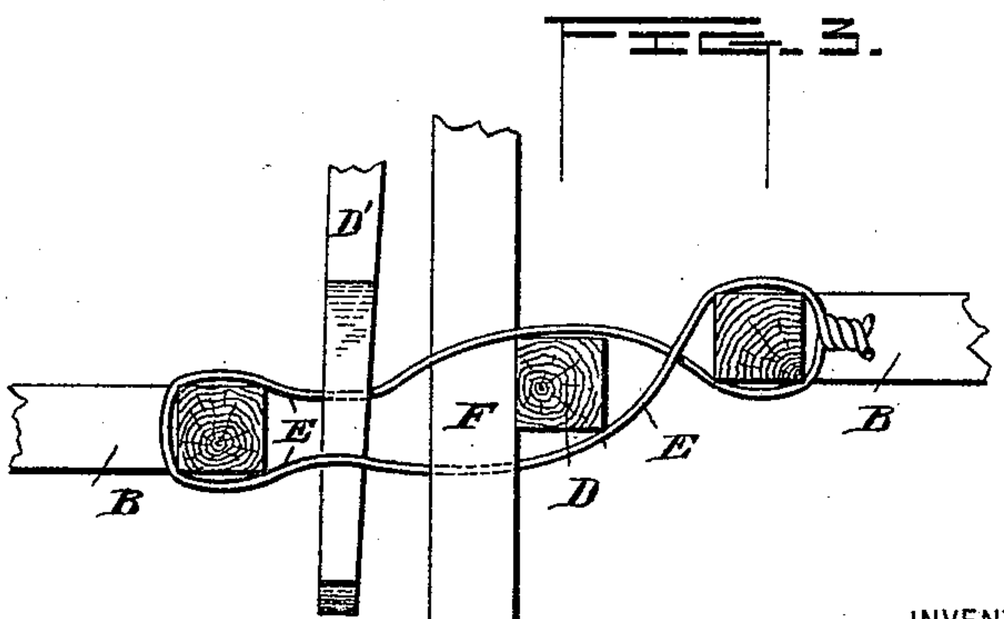


FIG. 3.



WITNESSES.

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UNITED STATES PATENT OFFICE.

GEORGE J. BROWN, OF GRAND LEDGE, MICHIGAN.

FENCE.

SPECIFICATION forming part of Letters Patent No. 438,402, dated October 14, 1890.

Application filed April 13, 1889. Serial No. 307,148. (No model.)

To all whom it may concern:

Be it known that I, GEORGE J. BROWN, a citizen of the United States, residing at Grand Ledge, in the county of Eaton and State of Michigan, have invented certain new and useful Improvements in Fences; and I do hereby 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.

My invention relates to that class of fences in which the parts are adapted to be bound together by wire in such a manner that the whole fence can be moved from time to time as occasion requires.

Heretofore fences have been constructed in which stakes, posts, and binders have been employed, and these several parts have been wired to the rails of the fence in many different ways; but I consider that my method possesses material advantages over those now in use; and my object is to so construct a fence of this class that it will be more strong, simple, and durable than those hitherto employed.

With these ends in view my invention consists in the peculiar features and combination of parts more fully described hereinafter, and pointed out in the claim.

Referring to the accompanying drawings, Figure 1 represents a perspective view of my complete device; Fig. 2, an end view, and Fig. 3 a detail showing the first position of the binder when inserted in the loop of the central cross-tie.

The reference-letter A represents the top rail of the fence, over which the main stakes B cross, and are bound together by the wire C, which is crossed beneath the rail A and thereby supports it. This cross-tie C also passes around the top of the upright post D, which bears against the rail A, and whose upper end is beveled to bear against the under side of one of the stakes B. To make this binding still stronger, the post D may be extended after being beveled, so as to bear against the side also of the rail B, as shown at R in Fig. 2. Thus it will be seen that the long stakes B, upright posts D, and rail A, are very strongly bound together at their upper ends. The stakes B are connected below the first binding and near their centers by a cross wire or tie E, forming a horizontal loop which embraces one main stake, the middle fence-rail, and the upright post, as seen more clearly in Fig. 3. It is then crossed and secured around the other main stake. The main stakes B are extended above the top rail A to form a crotch in which the rider-rail G is laid. This rail is bound to the stakes B by a wire H, which is tied to the bottom of the post D and passes up behind the rails M, N, and F and in front of the rail A. It then passes around the rider-rail and the tops of the stakes B and binds these parts securely together. The bottom rail M of the fence is placed in the loop formed at the bottom of the wire H, and is bound in place by a cross-tie I, which passes around the post D and wire H above the rail M. The rail N is laid in above the rail M, and is bound in place in the same manner as said rail M by the cross-tie J. The fence is now complete with the exception of the binder or brace D, which is wedge-shaped at its upper end and enters the loop in the cross-tie E. It is then forced downward until its lower end touches the ground, and is bound to the lower rail M of the fence by the wire O, thus twisting the loop of the cross-tie and bringing its central portion in a vertical plane, as seen in Fig. 2. The upright post D may be extended to the top of the fence, as shown in Fig. 2, and the wire H first passed around this post and the main stake B, thus binding these two parts together, and then passed over the rider-rail and around the other main stake.

To prevent the fence from settling in the ground, I provide a block X, which is made wedge-shaped, and is secured to the bottom of the main stake by a nail driven up through the block into said stake.

It will thus be seen by the above description that this fence is bound together in such a way that the braces and stakes cannot be pulled apart or moved sidewise by pressure brought to bear upon them. The stakes being bound together near their centers allows less leverage for a hog or other animal when pushing at the bottom of the same, and thereby renders the fence much more stable.

It will be observed that I use the wire for binding the fence in such a way that one cross tie or wire binds a great many of the parts together, so that besides saving wire it tends

to distribute pressure throughout all the parts when strain is brought to bear upon any one of them.

Another advantage of my mode of construction is that as the fence settles it becomes stronger, for it will readily be seen that as the stakes B settle they will spread farther apart and the cross-ties will be tightened around the parts which they inclose.

It is evident that many slight changes in the manner of constructing my device might be resorted to by any one skilled in the art without departing from the spirit and scope of my invention. Hence I do not limit myself to the precise construction herein shown.

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

In a fence, the combination of a pair of crossed main stakes, an upright post between them, a cross-tie forming a horizontal loop embracing one main stake, one fence-rail, and the upright post, and a bridge or lever arranged to be inserted point downward into said loop between the main stake and fence-rail and then its free end forced down with the cross-tie as a fulcrum and secured to the lower fence-rail, thus twisting that portion of the loop to a vertical position and securely binding the cross-tie about the parts it incloses, substantially as described.

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

GEORGE J. BROWN.

Witnesses:
GEO. W. IRISH,
ALFRED GILMORE.