J. L. NOLL.

FENCE.

APPLICATION FILED SEPT. 17, 1908.

910,950. Patented Jan. 26, 1909.

Fig. I.

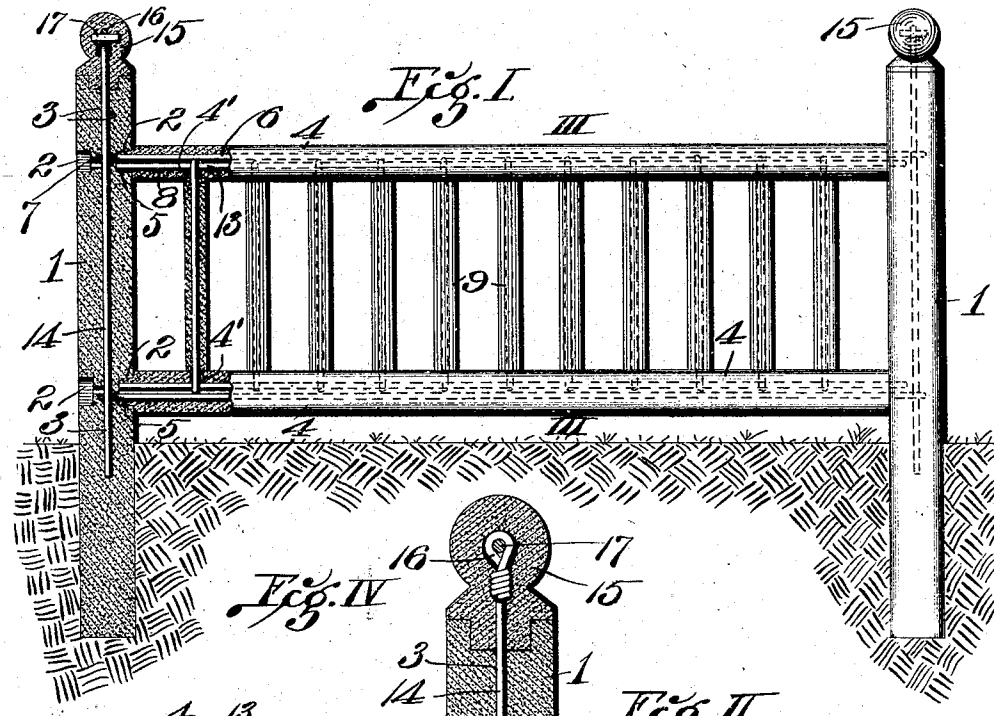


Fig. IV.

Fig. II.

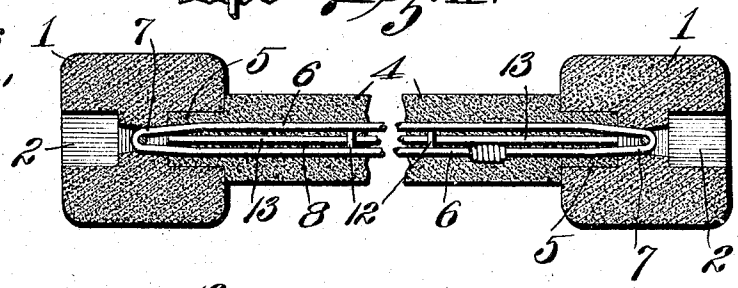


Fig. III.

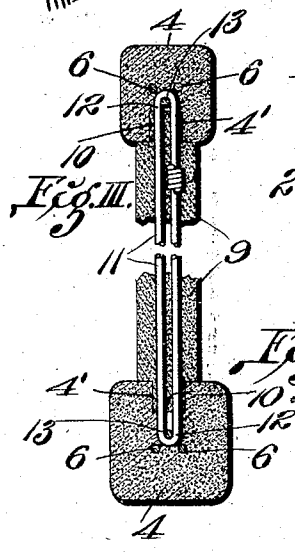


Fig. VI.

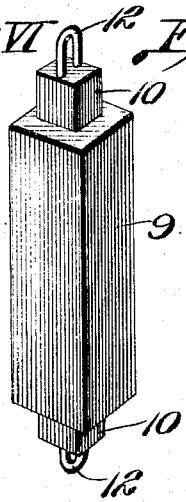
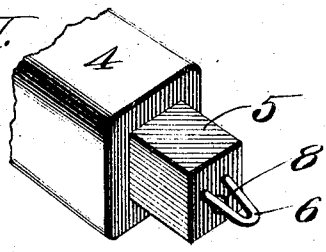


Fig. V.



Attest.

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UNITED STATES PATENT OFFICE.

JOHN L. NOLL, OF ST. JACOB, ILLINOIS.

FENCE.

No. 910,950. Specification of Letters Patent. Patented Jan. 26, 1909.

Application filed September 17, 1908. Serial No. 453,444.

To all whom it may concern:

Be it known that I, JOHN L. NOLL, a citizen of the United States of America, residing in St. Jacob, county of Madison, and State of Illinois, have invented certain new and useful Improvements in Fences, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification.

My invention relates to an improvement in fences and it has for its object the construction of a fence which is not susceptible to being injured by the elements and is consequently indestructible.

Figure I is a view partly in side elevation, and partly in vertical longitudinal section of a section of my fence. Fig. II is an enlarged horizontal section taken through the posts and one of the rails of a section of my fence with the central portion of said rail broken out. Fig. III is an enlarged vertical section taken on line III—III, Fig. I, through the rails and one of the uprights of my fence with the central portion of said upright broken out. Fig. IV is an enlarged vertical section through the upper end of one of the posts. Fig. V is an enlarged perspective view of one end of one of the rails. Fig. VI is an enlarged perspective view of one of the uprights.

In the accompanying drawings: 1 designates a concrete fence post which is provided at the points that receive the rails of the fence with sockets 2. These sockets are molded in the concrete post when it is originally made and each post is produced with a vertical pocket 3 that extends downwardly from the top of the body of the post and is adapted to receive a connecting rod to be hereinafter more particularly mentioned.

4 designates concrete rails which are molded with tenons 5 at their ends that are adapted to enter into the sockets 2 in the fence post. Each rail has molded in it a tie wire 6 that is provided at the ends of the rail with a loop 7 that is adapted to enter into the socket 2 in the fence post that receives the tenon at the end of the rail corresponding to that at which the particular loop is present. The tie wires 6 are preferably so formed as to present endless strands as seen in Fig. II. When each rail 4 is molded, there is produced therein a channel 8 that is adapted to receive a connecting rod to be presently more particularly referred to.

9 designates concrete uprights each of which is provided at its ends with tenons 10 that are adapted to enter into sockets 4' in the rails 4, see Figs. I and III. Each upright has embedded in it a tie wire 11 preferably of endless shape, as seen in Fig. III and which is provided at the ends of the upright with loops 12 that extend beyond the ends of the tenons 10.

13 designates tie rods that are inserted into the channels 8 in the rails 4 and which, by passing through the loops 12 of the connecting wires in the uprights 9 serve to connect said uprights to the rails 4 that receive them, whereby the rails and uprights are firmly united to each other.

14 designates connecting rods that are introduced into pockets 3 in the posts 1 and are passed through the loops 7 at the outer ends of the tie wires in the rails 4 thereby serving to connect said rails to the posts after the tenons of the rails have been inserted into the sockets of the posts. Each post 1 is preferably surmounted by a head 15 which is adapted to be placed in tenon and socket engagement with the body of the post, as seen in Figs. I and IV. The connecting rod 14 mounted in each post is provided at its upper end with a loop 16 that is embedded in the head of the post and retained therein by an anchor key or pin 17 that extends transversely of said loop.

I claim:—

1. A structure of the kind described, comprising concrete posts, connecting rods in said posts, concrete rails fitted to said posts, tie wires in said rails inserted into said posts and engaged by said connecting rods, and concrete uprights interposed between said rails.

2. A structure of the kind described, comprising concrete posts, connecting rods in said posts, concrete rails fitted to said posts, tie wires in said rails inserted into said posts and engaged by said connecting rods, concrete uprights interposed between said rails, and means in said rails for connecting said uprights and rails.

3. A structure of the kind described, comprising concrete posts provided with sockets, connecting rods in said posts, concrete rails

provided with sockets and fitted into the sockets in said posts, tie wires in said rails engaged by the connecting rods in said posts, and concrete uprights fitted in the sockets in said rails.

4. A structure of the kind described, comprising concrete posts provided with sockets, connecting rods in said posts, concrete rails provided with sockets and fitted into the sockets in said posts, tie wires in said rails engaged by the connecting rods in said posts, concrete uprights fitted in the sockets in said rails, tie wires in said uprights, and tie rods in said rails engaging the tie wires in said uprights.

5. A fence comprising concrete posts, horizontal concrete rails, concrete uprights, tie wires in said rails having loops projecting from the ends of the rails, tie wires in said uprights having loops projecting from the ends of the uprights, and connecting rods in said posts and rails inserted through the loops in the tie wires of the rails and uprights, substantially as set forth.

6. A fence comprising concrete posts provided with sockets, horizontal concrete rails provided with sockets and with tenons inserted in the sockets in said posts, concrete uprights provided with tenons inserted in the sockets of said rails, tie wires in said rails and uprights having loops projecting from the ends of said parts, and connecting rods in said posts and rails threaded through said loops to connect said rails to said posts and said uprights to said rails, substantially as set forth.

JOHN L. NOLL.

In the presence of:—
LILY ROST,
E. M. HARRINGTON.