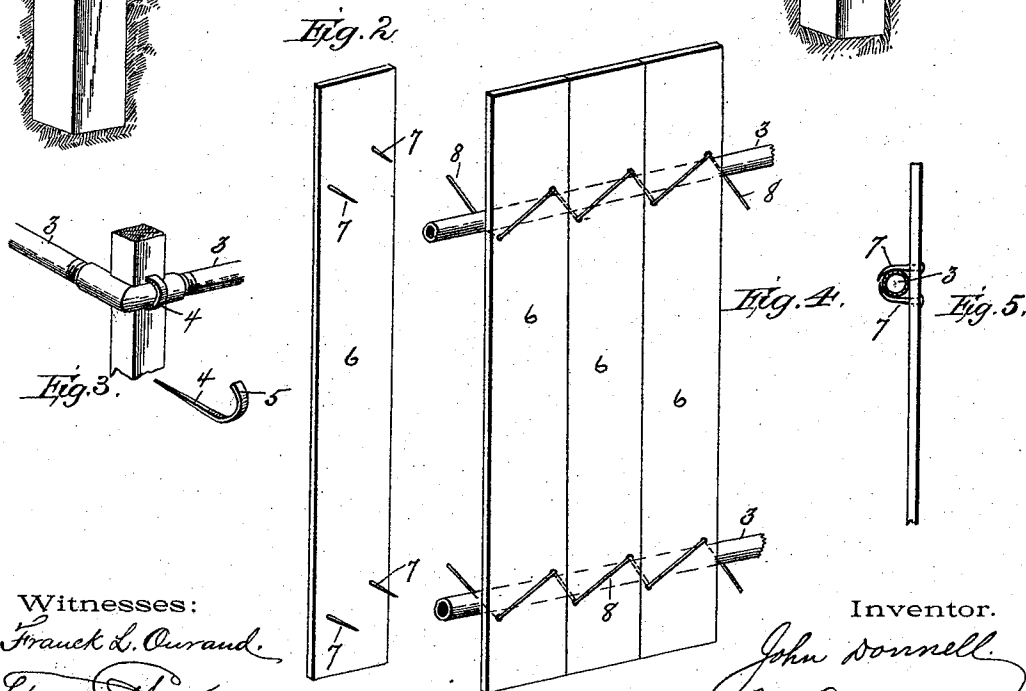
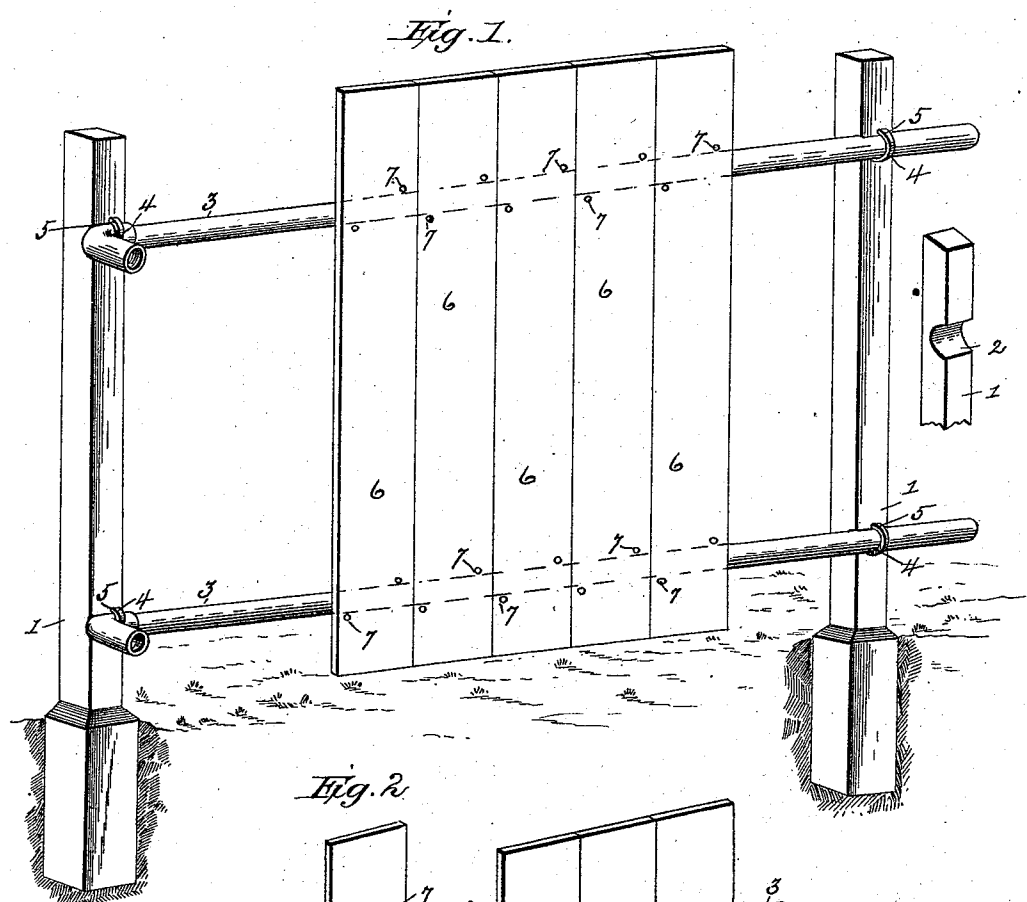


(No Model.)

J. DONNELL.
FENCE.

No. 527,780.

Patented Oct. 23, 1894.



Witnesses:
Frank L. Oursand.
Edward Stearns.

Inventor.
John Donnell.
By J. M. Stearns,
Attorney.

UNITED STATES PATENT OFFICE.

JOHN DONNELL, OF WASHINGTON, DISTRICT OF COLUMBIA.

FENCE.

SPECIFICATION forming part of Letters Patent No. 527,780, dated October 23, 1894.

Application filed February 7, 1894. Serial No. 499,313. (No model.)

To all whom it may concern:

Be it known that I, JOHN DONNELL, a citizen of the United States, residing at Washington, District of Columbia, 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 board fences, the object being to construct a compact and durable fence by utilizing new or discarded gas or water pipe for the fence stringers and securing the boards in place upon the stringers by means which will as nearly as possible bind or clamp the meeting edges of the boards together to render the structure strong and durable.

The invention consists in the features of construction hereinafter fully described and pointed out in the appended claims.

In the drawings,—Figure 1 is a perspective view of a section of fence constructed in accordance with my invention. Fig. 2 illustrates one board detached, with nails in place ready for attachment to the tubular stringers. Fig. 3 shows in detail the manner of securing the tubular stringers to the fence posts, and Fig. 4 shows the boards held in place by a continuous binding wire. Fig. 5 is an edge view of one board showing the nails bent upon the stringer.

1 indicates the fence posts, each formed with an upper and a lower semi-circular recess 2, to receive the stringers.

The stringers 3 consist of gas pipe or other metallic tubing, and are secured to the posts 1 by clamping brackets 4, adapted to be driven into the posts, and each having a curved clamping arm or hook 5 to embrace and hold the stringers, as shown.

It is designed to not only secure the boards 6 upon the stringers, but also to tightly join the edges of the boards to form a closely built fence, and to so join the boards and stringers as to equally distribute the strain upon the parts. The boards 6 may be secured by a series of malleable iron nails 7. I prefer to drive these nails through the boards, near the top or bottom of the latter, as shown in Figs. 1 and 2; that is to say, in different horizontal planes, so that the nails will extend alter-

nately above and below the stringers and, when bent around the latter, will secure the boards firmly together at their edges. By this arrangement, it will be seen that each board will be held to the stringer at the top by one nail bent downwardly over the stringer, and one nail bent upwardly, and at the bottom by a similar fastening.

By the employment of the piping or metallic tubular stringers, I not only prevent the damage caused by the rotting away of the ordinary wooden bar, but I facilitate the building of the fence by first driving the nails through the board, as seen in Fig. 2, and afterward bending them by the tap of a hammer. The employment of the tubular stringer also enables me to provide a firm structure at fence corners by using the ordinary L-shaped coupling 7, as shown in Fig. 1.

In Fig. 4, I show a continuous wire for holding one or more boards, and by first boring holes in the boards, I secure the latter in place by a sewing movement, as clearly illustrated.

The securing of the boards by nails and wires passed alternately over and under the stringers not only firmly attaches the boards to the stringers, but also to an extent clamps the boards together to constitute a tight edge joint, and a close structure.

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

1. The combination with the posts recessed as described, of gas pipe stringers, seated in the recesses of the posts, clamps driven into the posts and embracing the stringers, boards secured to the stringers and clamped together to form close edge joints by fastenings which pass around and embrace said stringers alternately above and below the latter, substantially as described.

2. The combination with the posts, and tubular stringer, of boards formed with perforations and secured to said stringer by a wire passed alternately over and under the stringer, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOHN DONNELL.

Witnesses:

IDA MCCLEARY,
F. O. MCCLEARY.