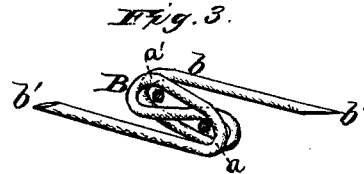
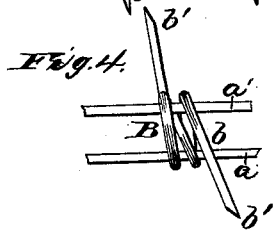
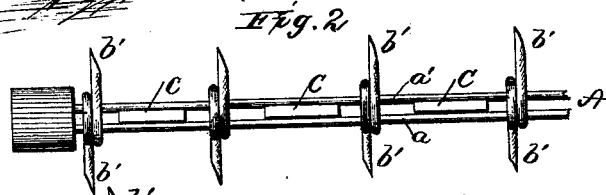
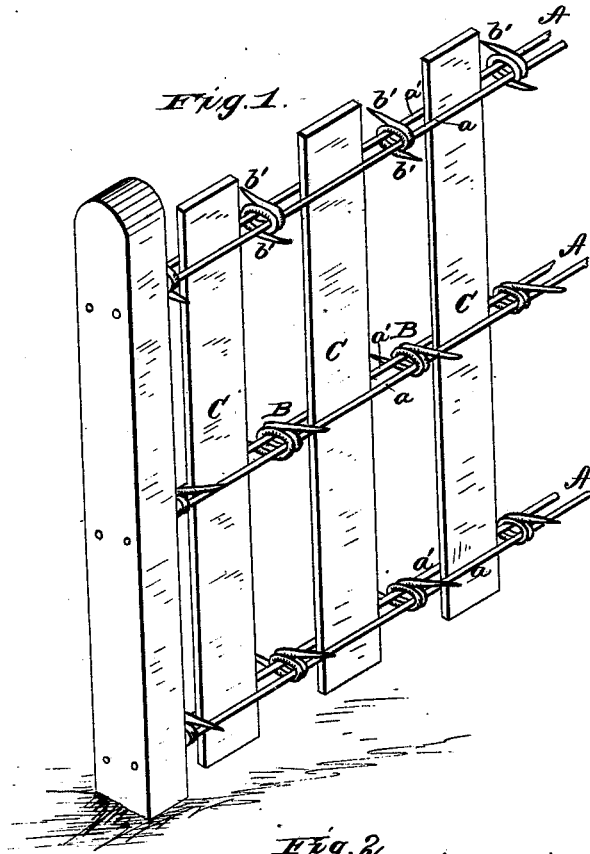


W. H. H. FRYE.
Wire-Fence.

No. 204,312.

Patented May 28, 1878.



WITNESSES
A. L. C. C. C.
P. M. N. N. N.

By

INVENTOR
W. H. H. Frye.
by *L. Deane,*
Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM H. H. FRYE, OF MARSHALLTOWN, IOWA.

IMPROVEMENT IN WIRE FENCES.

Specification forming part of Letters Patent No. **204,312**, dated May 28, 1878; application filed May 4, 1878.

To all whom it may concern:

Be it known that I, WILLIAM H. H. FRYE, of Marshalltown, in the county of Marshall and State of Iowa, have invented certain new and useful Improvements in Wire Fences, of which the following is a specification:

Figure 1 is a perspective, showing a panel of the fence. Fig. 2 is a detail in plan, showing the position of the palings between the wires and barbs between the palings. Fig. 3 is a detail, showing the barbs on the wire. Fig. 4 is a detail, showing another view of same.

The design of the present invention is to produce an effective, strong, and cheap fence; and its peculiarities consist in the combination of the barb with the wires in the formation of suitable apertures along the panel for the paling; in the combination of the palings and the wires; and in the general construction and combination of all the parts, substantially as will now be more fully and plainly set forth.

In the accompanying drawings, A denotes each cable, and is formed of two fence-wires, *a a'*, laid or stretched parallel to each other, and as many of such cables can be placed one above the other as may be desired for making a fence. Usually it has been found that three will answer very good purposes.

At the proper distance along each cable are placed the barbs B, so as to form between each two, on same cable, a suitable opening, into which the paling C can be readily placed. The barbs B being arranged in the several cables one above the other, the openings in each cable will also come regularly one over the other, so that the paling can easily be placed in its said position, where, by its size or thickness and width, it is adapted to fit snugly. The ends *b' b'* of the barbs will project on opposite sides and regularly along the line of the cable between the palings.

Each of the barbs is made of a single wire, *b*. This is wound from the projecting end *b'* over both wires *a a'*, then under the same, and then bent over the first wire *a*, and returned under the wire *a'*, up and over which it is turned close by the side of the first bend in *b*, and thence passed parallel with the end *b'* over both wires *a' a*, and returned under the wires, horizontally projects at its end in a parallel line, but on the opposite side from the end at the point of starting. This barb is

fitted tightly on the wires, so as to secure it rigidly in place, and by it the two wires *a a'* can be thus drawn sufficiently near together.

This peculiar method of twisting serves to secure the barbs in place against any vertical turning, while any possible inclination to horizontal movement would be effectually checked by the palings. Both these points are of large account in devices of this kind.

By means of the paling, which can, of course, be of any desired shape or size, not only an ornamental fence will be provided, but when used on a field or in a barn-yard the color of the paling will render effectual aid in making the fence visible. This also is of great consequence, since now it has come to be a common objection to simple barb on a wire cable that, by reason of the difficulty in observing the same, oftentimes cattle are seriously injured by coming suddenly and violently in contact with it.

In this fence the parallel wires of the cable are much more durable than if twisted, and by the special construction shown no staples or other fastening device are needed for the paling—a great advantage in cost as well as in time of setting up the fences.

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

1. A wire fence composed of two or more cables, A, placed vertically the one above the other, each composed of two parallel wires, *a a'*, formed at regular intervals, as described, by barbs B, and combined with palings C, substantially as and for the purposes set forth.

2. The fence-cable A, composed of horizontally parallel and untwisted wires *a a'*, and combined with barbs B, substantially as described.

3. The double lock-bar B, composed of wire *b*, twice twisted round each of the horizontally-parallel cable-wires *a a'*, and intertwined between them, and having points *b' b*, substantially as and for the purposes set forth.

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

WILLIAM H. H. FRYE.

Witnesses:

JOHN M. GILCHRIST,
B. T. FREDERICK.