(Model.)

W. G. HOWELL.

FENCE ROD.

No. 299,072. Patented May 20, 1884.

FIG. 1

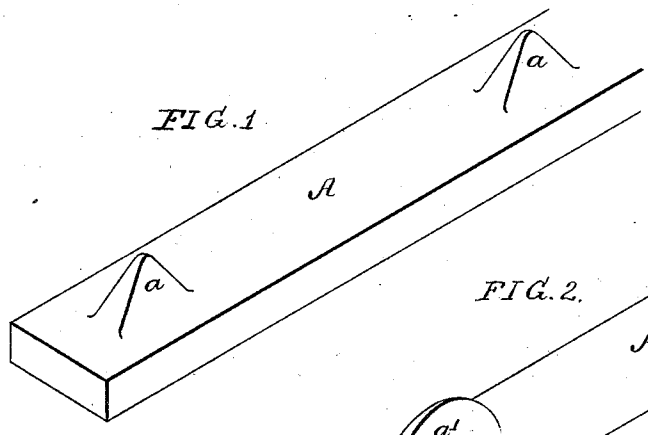


FIG. 2.

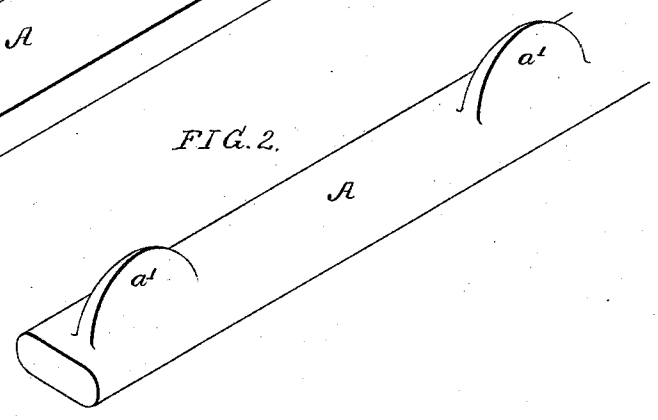


FIG. 3.

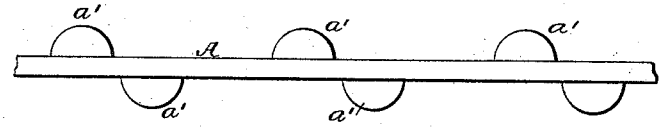
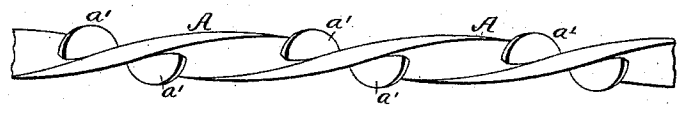


FIG. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM G. HOWELL, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO BERNARD C. LAUTH, OF SAME PLACE.

FENCE-ROD.

SPECIFICATION forming part of Letters Patent No. 299,072, dated May 20, 1884.

Application filed February 4, 1884. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM G. HOWELL, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented a certain Improved Fence Rod or Strip, of which the following is a specification.

My improved fence-rod consists of a rolled strip of iron or steel having at intervals thin and flat fin-like roll-finished projections, forming integral parts of the said strip, and extending from the middle portion thereof, as described and claimed hereinafter, the improved rod being cheaper than and quite as efficient as ordinary barbed wires.

In the accompanying drawings, Figure 1 is an exaggerated perspective view of a rolled bar having crude projections on one side only in the present instance; Fig. 2, an exaggerated perspective view of the finished fence rod or strip; Fig. 3, a view of the rod with projections on both sides, and Fig. 4 a view of the rod Fig. 3 as it appears when twisted.

The bar A, Fig. 1, with its crude projections *a*, is made by rolling, preferably in the manner fully described in a separate application for a patent filed by me February 4, 1884, Serial No. 119,736. To convert this bar A into the finished fence-rod, it is passed between rolls, which flatten the crude projections and reduce them to the condition of the thin fin-like projections *a'*, (shown in Fig. 2,) this operation being also described in the said application for a patent. These fin-like roll-finished projections, which form integral parts of the rod, have edges sharp enough slightly to wound cows or horses which may attempt to break through or leap over a fence of which the rod may form a part. The projections extend from the middle portion of the rod—that is to say, they are away from the edges of the said rod, and extend from the body of the same at points between the edges.

It should be stated here that I do not claim to be the first to make a fence-rod with projections or barbs which constitute integral parts of the rod, for sharp-pointed barbs have been made by first rolling webs or projections on the rod, and then so cutting these webs or projections that portions thereof could be bent to form the desired barbs. It has also been proposed to form sharp-pointed barbs on rods by the process of rolling.

The distinctive feature of my invention is the peculiar character of the projections, which, instead of being sharp-pointed, are thin and fin-like and roll-finished, have comparatively sharp edges, are made without cutting or bending, and extend from the middle portion of the rod.

If desired, the rod Fig. 2 may be twisted.

In Fig. 3 the fence-rod has fin-like roll-finished projections *a'* on opposite sides, and this rod also may be twisted in the manner shown in Fig. 4.

The process of making the rod and its projections is disclaimed in this application, as it is claimed in an application filed by me February 4, 1884, Serial No. 119,736.

I claim as my invention—

1. As a new manufacture, the within-described fence-rod, the same consisting of a rolled strip of iron or steel having at intervals flattened roll-finished sharp-edged fin-like projections *a'*, forming integral parts of the rod, and extending from the middle portion of the same, as set forth.

2. The within-described twisted fence-rod, the same consisting of a rolled and twisted strip of iron or steel having at intervals flattened, roll-finished, sharp-edged, and fin-like projections extending from the middle portion of the rod, and forming integral parts of the same, as described.

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

WILLIAM G. HOWELL.

Witnesses:
JOHN M. CLAYTON,
HARRY SMITH.