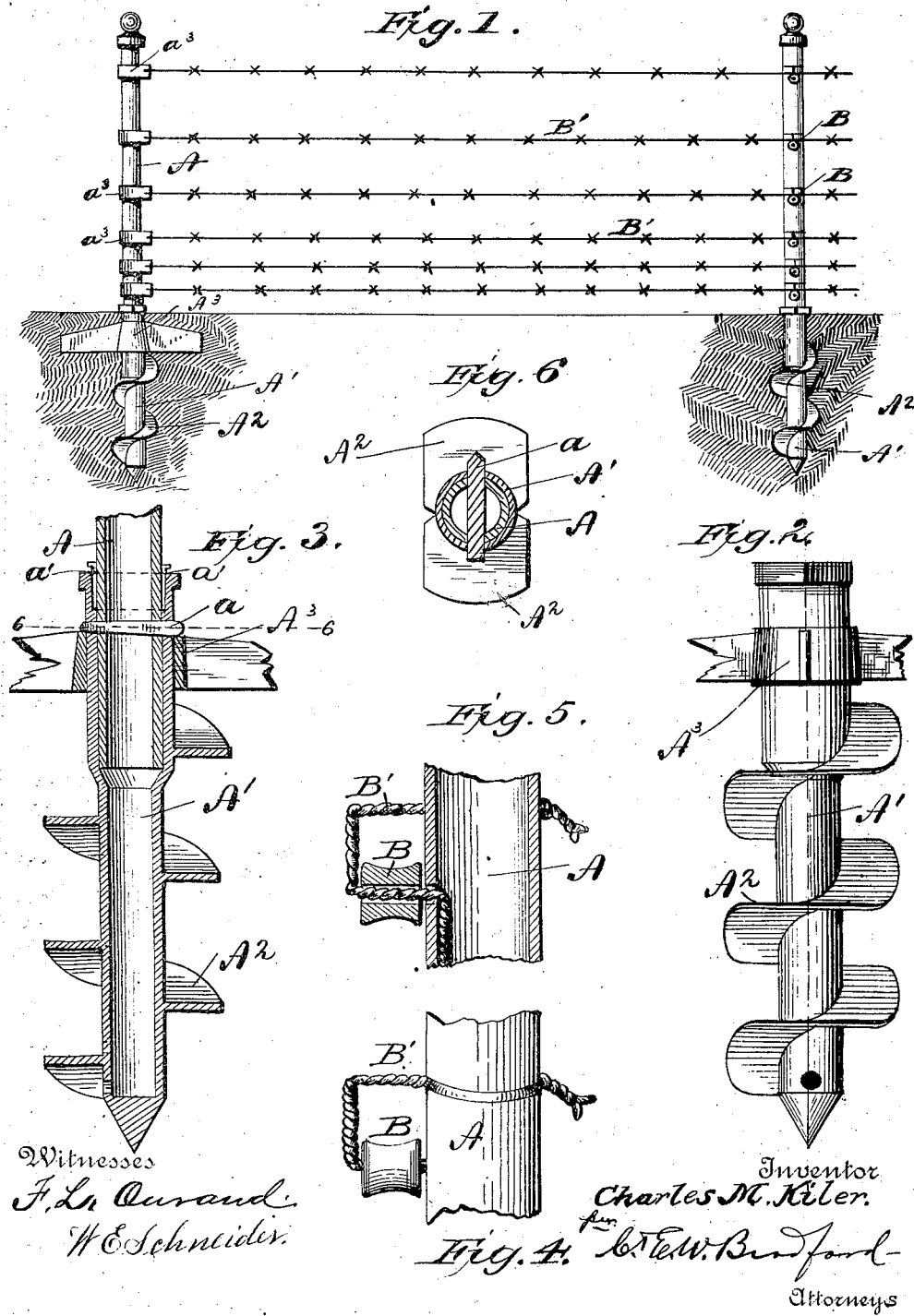


(No Model.)

C. M. KILER.
WIRE FENCE.

No. 457,159.

Patented Aug. 4, 1891.



UNITED STATES PATENT OFFICE.

CHARLES M. KILER, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF
TO ROBERT E. POINDEXTER, OF SAME PLACE.

WIRE FENCE.

SPECIFICATION forming part of Letters Patent No. 457,159, dated August 4, 1891.

Application filed October 6, 1890. Serial No. 367,263. (No model.)

To all whom it may concern:

Be it known that I, CHARLES M. KILER, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Wire 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 said invention relates to various improvements in the construction and arrangement of the parts of wire fences, whereby such a fence is provided of an inexpensive form and one which can be built rapidly and with a comparatively small amount of labor, all of which will be hereinafter more particularly described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a side elevation of a panel of fence embodying my said improvements; Fig. 2, a side elevation of the lower end or base of one of the posts thereof; Fig. 3, a central vertical section through the same; Fig. 4, a detail elevation of one of the wire supports, showing the manner of attaching the same to the post; Fig. 5, a central vertical section through the same; and Fig. 6 a horizontal section looking downwardly from the dotted line 6 6 in Fig. 3, the collar, with the radial arms shown in Fig. 3 immediately beneath said point, being omitted.

In said drawings the portions marked A represent the posts; A', the bases thereof; B, a roll or spool attached to the intermediate posts for supporting the wires, and B' the tie or loop supporting said spool.

In general form the fence shown is of a well-known character, my invention consisting in detail improvements only. The posts A are shown as consisting of sections of gas-pipe of suitable size, but may be of any material or form found suitable. Each is mounted in a cast-metal base A', which base is preferably formed hollow with a solid pointed tip, as shown, to facilitate its insertion in the ground, but, as is readily understood, may be formed solid throughout its length, if pre-

ferred. A socket is formed in its upper end adapted to receive the lower end of the post, which is secured therein by a transverse pin a, which extends through the parts, and keys a', which may be driven into recesses formed in the sides of the socket at its upper end to impinge against the sides of the post, as shown, thus securing said post firmly in the desired relative position. From the lower end of the socket said base is formed smaller than said socket, in order that its insertion in the soil will require the least possible amount of displacing thereof, thus permitting said base to be inserted with the expenditure of the least possible amount of power. A wing or series of wings A² is cast integrally with said base and extend around the same in an inclined direction, forming an approximate spiral. Said wing may be continuous or may be formed in sections or in a series, each section extending around one side of the post and joined at its lower end to the top end of the next section below or not, as may be preferred. In Figs. 1, 2, and 3 said wing is not shown as formed with breaks therein; but in Fig. 6 it will be noticed that the ends of the sections are practically separated, thus dividing the wing into a series of sections, as above suggested. It will also be noticed that said wing projects from two opposite sides of the post to a considerable width, while it projects but slightly from the other two sides. It is also formed, as clearly shown, with a plain surface—that is, without any twist, such as would be formed in constructing a perfect spiral—the direction of its projection from the base being at right angles with a plane drawn through the center thereof. This particular form and arrangement of the wing is of great importance and constitutes the leading feature of my invention, inasmuch as by such a form the base may be cast from metal, it being possible to draw these patterns from the molds which are formed, and the casting done by the common process. Such a result could not be obtained if said wings were of the common form of spirals with a twist transversely thereof. By this arrangement and form I thus provide a base which can be screwed into the ground

without the labor of first boring a hole therefor, and one which at the same time can be provided at a cost so slight as to make it practical for the purpose. The upper end of said base is formed square, as shown, to permit a wrench to be placed thereon for the purpose of screwing the same into the ground. A collar A³, with radially-extending arms, is preferably mounted on the post, being embedded in the ground just beneath its surface. By this means a firm support for the post is afforded. It may be found that such an additional support will not be required on the intermediate posts, but it will be of great assistance in affording strength and rigidity to the fence on the corner-posts.

The roll or spool B is mounted on the tie or loop B', which is formed of a wire doubled with the two strands twisted together. Said roll or spool is mounted thereon and the double end inserted in a perforation in the post and bent down therein, thus securing said end to the post. The other end is bent into the post above the spool, where the two strands of which it is composed are separated and passed around said posts in opposite directions and then twisted together on the opposite side, thus forming a loop through which the fence-wire may pass and rest upon the roll or spool thus journaled on the lower stem thereof.

In constructing the fence the posts are screwed into the ground, as desired. The fence-wires are then attached to the end of posts by the clips or tension devices *c*² and are attached to the intermediate posts by forming the loop B' around them, the wire resting in the groove of the roll B thereon. By using the roll the fence-wire is permitted to pass through the loop freely in being tightened, and said roll is therefore of con-

siderable advantage where the wires are provided with barbs or projections which would catch with the loop without the roll thereon. It will be understood, however, that where the fence-wires are smooth the roll may be dispensed with without departing from my invention.

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

1. In a fence, the combination, with a post, of a base therefor formed with wings projecting out therefrom at right angles to a plane through the center thereof and extending in a general inclined or spiral direction around said base, substantially as set forth.

2. The combination, in a fence, of a post and a base therefor, said base being formed with a wing integral therewith which extends in a general inclined direction around said base and projects outwardly therefrom on opposite sides and on straight lines at right angles to a plane through its center, substantially as described, and for the purposes specified.

3. In a fence, the combination, with the posts thereof, of a wire support consisting of a loop formed of a doubled and twisted wire with the double end inserted and secured in the post and the other end looped around the fence-wire with its strands separated and passed around the posts in opposite directions and twisted together on the opposite side thereof, substantially as described, and for the purposes specified.

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

CHARLES M. KILER.

Witnesses:

JOSEPH A. MINTURN,
FRANK W. WARNER.