(No Model.)

J. LIPE.

HOOK FOR HOP VINES.

No. 280,639. Patented July 3, 1883.

Fig. 1.

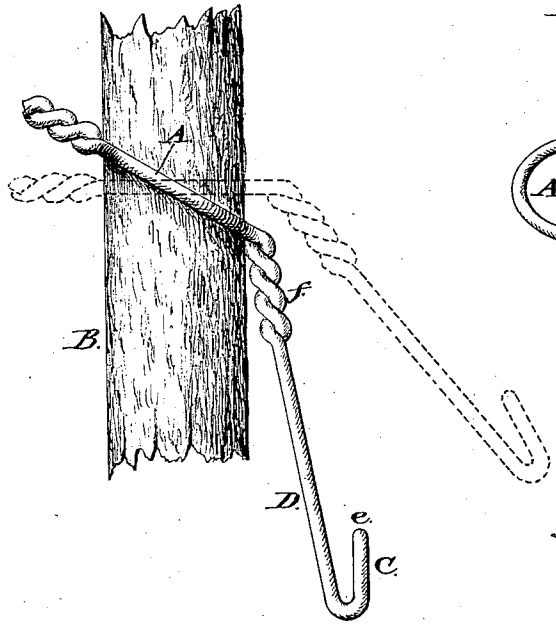


Fig. 2.

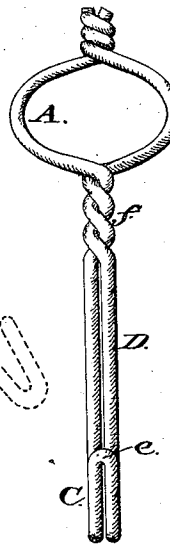
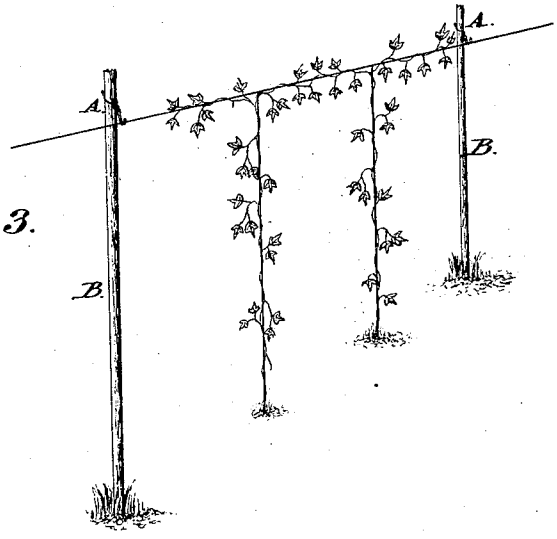


Fig. 3.



Witnesses:

John A. Ellis.

A. W. Steigen.

Inventor:

John Lipe

By David A. Burr

Attorney.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

JOHN LIPE, OF SHARON, NEW YORK.

HOOK FOR HOP-VINES.

SPECIFICATION forming part of Letters Patent No. 280,639, dated July 3, 1883.

Application filed April 25, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN LIPE, of Sharon, in the county of Schoharie and State of New York, have invented a new and useful Improvement in Hooks for Hop-Vines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to the suspension of the cords or wires employed in hop-fields, for the support of the vines, by means of hooks.

It has for its object facilitating the attachment of the wire to the hop-pole by a cheap device which will permit the wire to be readily adjusted to the proper height upon the pole, will hold it securely in such position, and will permit the wire, with the vines supported therefrom, to be easily dropped to the ground for the purpose of gathering the crop.

It consists of a loop or ring adapted to slip over and upon the hop-pole when at a right angle to its length, and which terminates in a hook dependent therefrom at an obtuse angle, so as to cause the loop or ring to bind upon the pole by the weight of the hook and of the wire suspended thereon. The ring and hook are cheaply constructed in one, of a single piece of wire bent and twisted to form the two, or, as an equivalent therefor, of a bit of metal stamped and bent into proper shape.

In the accompanying drawings, Figure 1 is a side elevation of my device fitted upon the end of a hop-pole; Fig. 2, a front view of the same detached from the pole; and Fig. 3, a perspective view of a series of poles in place, provided with hooks, illustrating the use thereof in supporting the wires upon which the hop-vines are trained.

A represents the loop or hook to be formed around or slipped over the end of a hop-pole, B.

C is a hook formed at the end of a shank, D, connected to and projecting from the ring A at an obtuse angle therewith, as illustrated in the side view thereof in Fig. 1. The ring and hook are cheaply made all in one by doubling a piece of wire upon itself, as shown at *e*, Fig. 2, and after leading the two ends side by side closely parallel with each other far enough to form a hook and shank of the required size and length, twisting them together, as at *f*, Figs. 1 and 2, to unite them closely, then separating and bending them either about the pole or in readiness to be placed on the pole in the form of a loop or ring, which is closed and made complete by twisting the two ends of the wire together when they meet, after having each described substantially a semicircle. The diameter of the loop or ring A is such as to permit of its slipping loosely, and consequently very easily, upon the pole B when it is held at a right angle with the length of the pole, as shown by dotted lines, Fig. 1; but when placed upon a vertical pole and left free, the weight of the hook C and its shank D, projecting at an angle, as shown, will tend to so incline the ring to the axis of the pole as to cause it to bind and clamp the same, the frictional hold of the ring in this position upon the pole being increased in proportion to the weight which may be suspended from the hook; hence, although the ring may be readily slipped and adjusted upon the pole or removed therefrom by lifting the hook, it will be automatically secured at any desired point so soon as left free by the simple weight of its hook.

As an equivalent substitute for the wire, I contemplate stamping the ring and the strip forming the hook in one piece out of a single bit of stiff metal, and bending the strip into a hook shape and the shank at an obtuse angle with the ring, substantially in form as shown in the drawings.

I claim as my invention—

A hop-vine hook consisting of a piece of wire doubled upon itself to form the hook C at one end, an intermediate shank, D, and an end ring or loop, A, at an obtuse angle to the shank, all constructed and adapted for use substantially as shown and described.

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

JOHN LIPE.

Witnesses:

A. W. STEIGER,

JOHN A. ELLIS.