F. B. GREENE.

Grape-Vine Trellis.

No. 47.415. Patented Apr. 25, 1865.

Fig. 3.

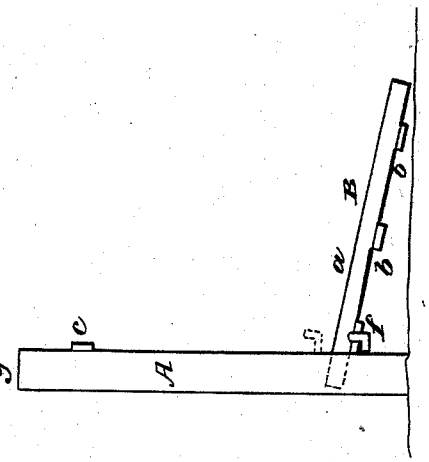


Fig. 2.

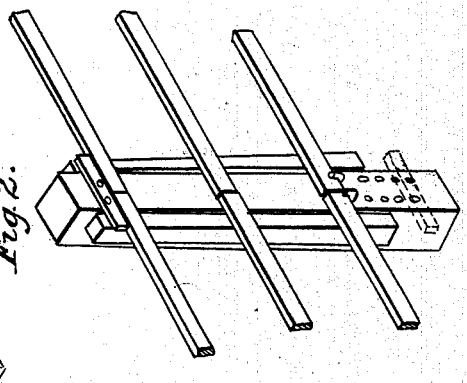
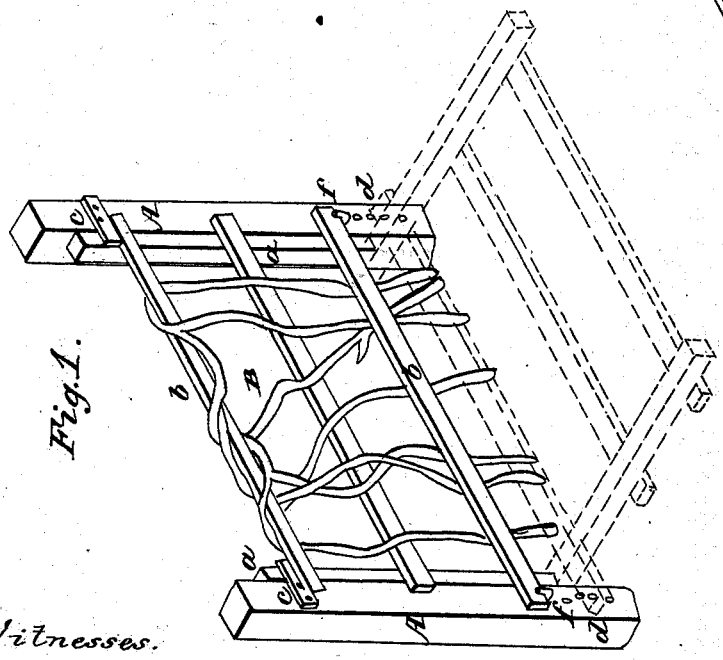


Fig. 1.



Witnesses.

Jay Hyatt.

George W. Pope.

Inventor.

F. B. Greene.

By J. Fraser Attys.

UNITED STATES PATENT OFFICE.

F. B. GREEN, OF SENECA FALLS, NEW YORK.

IMPROVEMENT IN GRAPE-VINE SUPPORTS.

Specification forming part of Letters Patent No. **47,415**, dated April 25, 1865; antedated April 17, 1865.

To all whom it may concern:

Be it known that I, F. B. GREEN, of Seneca Falls, in the county of Seneca and State of New York, have invented a new and useful Improvement in Turn-Down Supports or Frames for Grape-Vines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Figures 1 and 2 are perspective views of my improvement; Fig. 3, an end elevation of the same with the support or frame turned down.

Like letters of reference indicate corresponding parts in all the figures.

It is desirable to provide a frame or support for grape-vines to twine on that may be so adjusted as either to stand upright or be turned down. In summer, or during temperate weather, the vines should be elevated so as to receive the best effect of sun and air; but in winter, or during stormy and inclement weather, they should be turned down or reclined so as to be less exposed. To accomplish this result a device has been already used in which the frame is made to turn back; but the difficulty is that the axis on which it turns is non-adjustable, or not capable of being raised or lowered vertically. The consequence is that when the frame is turned down the leverage causes a strain on the vines that injures the roots and wears the bark.

It is the object of my invention to obviate this difficulty by making the frame adjustable vertically, so that when in an upright position the frame can first be lowered to a suitable degree to compensate for the strain that would otherwise be produced on the vines, and then turned back without difficulty or danger.

As represented in the drawings, A A are two posts set in the ground at suitable distance apart, and B a frame or support for the vines to twine on, similar in form to the section of a fence, being made up of battens *a a* and rails *b b*. The frame is sustained in place between the posts at the top by means of projecting cleats *c c*, secured respectively to the post, as shown, or by hasps or any other suitable means, while at the bottom the posts are provided each with a set of vertical adjusting-holes, *d d*, or equivalent, in any of which fit pins *f f*, or equivalent, that receive the base of the frame and hold it up. I prefer to make the pins *f f* of the hook form shown, so that when the frame is upright, as in Fig. 1, they will hold the base from sliding out, or when the frame is turned back, as in Fig. 3, the hooks may be hooked in so as to support the inside end of said frame away from the ground, and thus prevent its decay. The supports thus produced may be employed singly or in numbers. In the latter case they may, if desired, be arranged in parallel rows which are situated at such a distance apart as to leave space between for the frames to be turned back; or, if desired, the rows may be situated nearer together, and the frames of one row turn back between the posts of the next.

Fig. 2 shows the posts as adapted to receiving the contiguous ends of two frames, being provided at the bottom with a double set of adjusting holes and pins and at the top with cleats that project on both sides.

The device above described, though simple in construction and arrangement, is of great importance in rendering practical and effective an apparatus that has been heretofore defective on account of its injury to the vines. By the employment of the adjusting-holes *d* and pins *f*, I am enabled to raise or lower the support B to any degree desired, and therefore, when the vines are to be turned back in the position indicated in Fig. 3, by so first lowering the frame to the proper position to loosen the vines and compensate for the strain that would otherwise come on them from the leverage, if the axis of the frame were fixed, no such strain is produced and no injury done either to the roots or bark.

What I claim as my invention, and desire to secure by Letters Patent, is—

Making the frame or support B adjustable vertically between the posts A A by means of the adjusting holes and pins *d f*, or equivalent, the whole arranged, combined, and operating substantially in the manner and for the purpose herein set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

F. B. GREEN.

Witnesses:
A. C. HOGOBOOM,
JAY HYATT.