

C. Seyler,
Wire Stretcher,

N^o 78,487-

Patented June 2, 1868.

Fig. 1

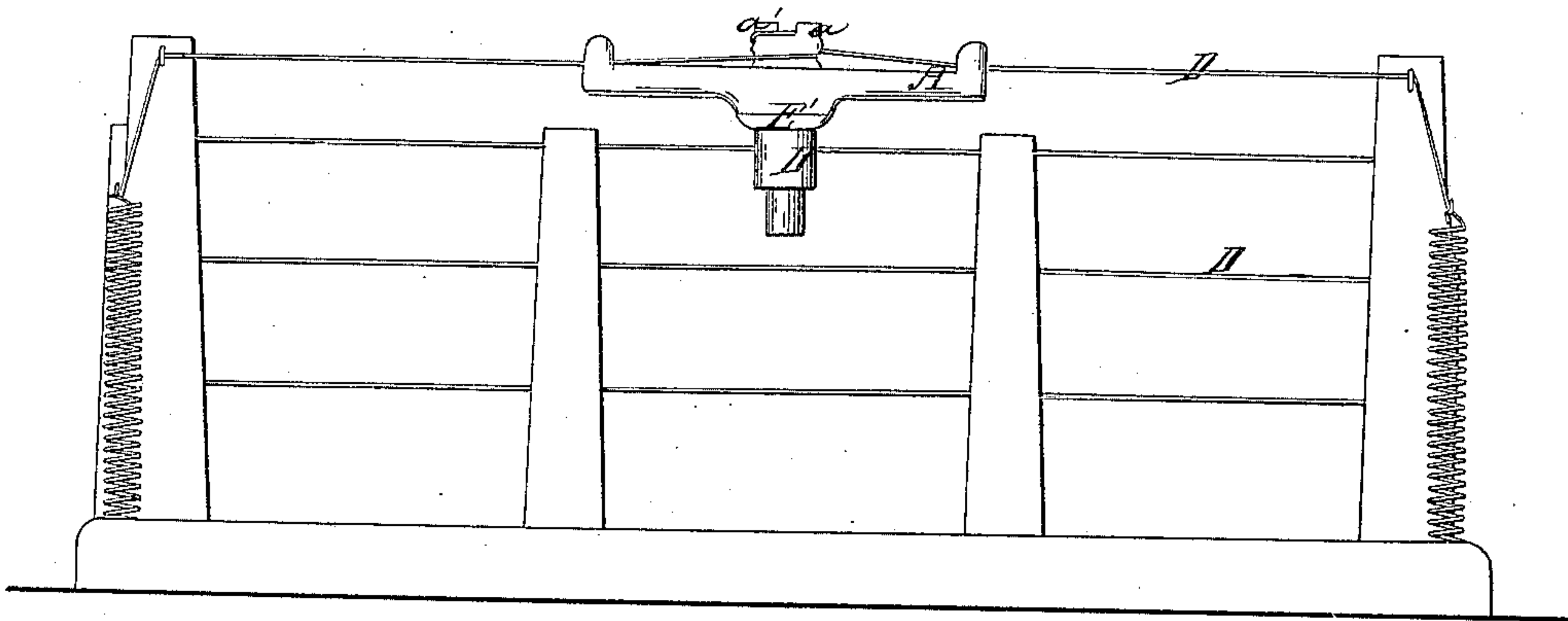


Fig. 2

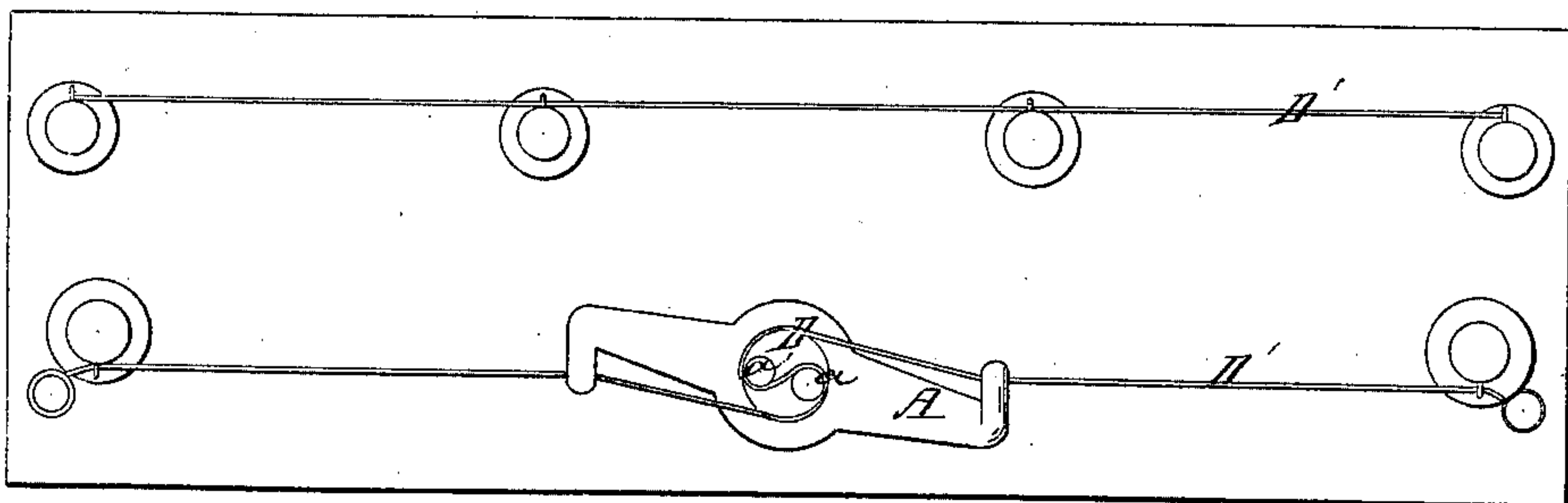


Fig. 3

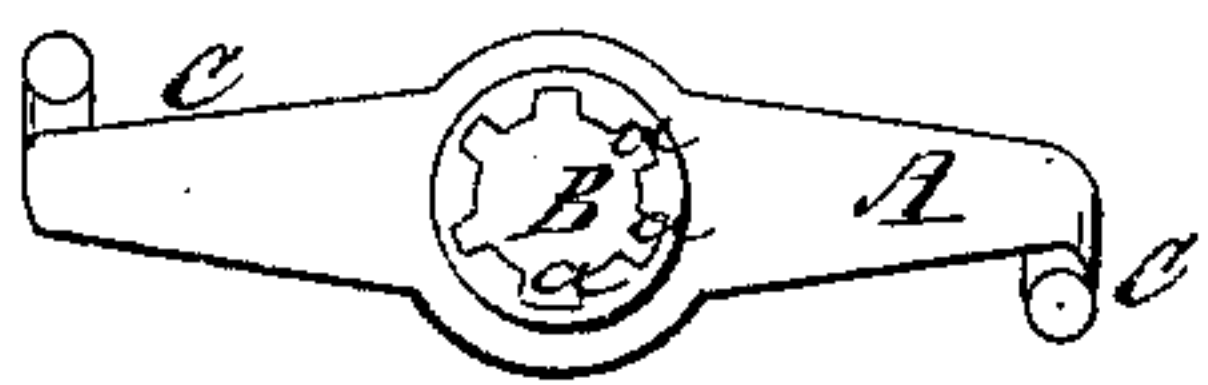


Fig. 4

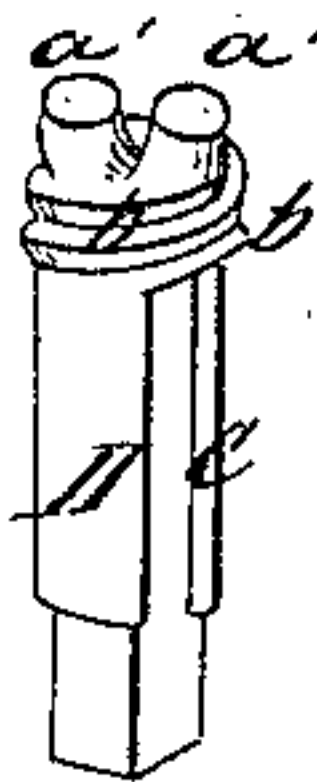


Fig. 5



Witnesses
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CARL SEYLER, OF CLEVELAND, OHIO.

Letters Patent No. 78,487, dated June 2, 1868.

IMPROVEMENT IN VINE-TRELLIS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, CARL SEYLER, of Cleveland, in the county of Cuyahoga, and State of Ohio, have invented certain new and useful Improvements in Vine-Trellises; and I do hereby declare that the following is a full and complete description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of the apparatus and trellis.

Figure 2 a view of the top.

Figures 3, 4, and 5, detached sections.

Like letters of reference refer to like parts.

The nature of this invention consists of an apparatus for tightening up the wires of trellises, so that they can be at all times, and with but little labor, kept strained, and properly secure for the trailing of the vine.

In fig. 1, A represents a pair of arms, a detached view of which is shown in fig. 3. Said arms are provided with a central eye, B, in the sides of which are sunk the notches *a*. The extreme ends of these arms terminate in a hook, C, the purpose of which will hereafter be shown.

D is a plug or shaft, a detached view of which is shown in fig. 4. Said shaft is fitted loosely in the eye B, and in which A rotates. The upper end of the plug is provided with a pair of studs, *a'*. From the base of each proceeds around downward a groove, *b*. Also lengthwise in the side of the shaft is cut a groove, *c*, in which the spur E, fig. 5, is fitted and slides, so that the ring E' can be slipped upon the plug, and brought to the position shown in fig. 1, for the purpose of holding the implement and tension given to the wire.

The practical application and operation of this apparatus are thus:

The implement, when put together, as shown in fig. 1, is then applied to the wire D', so as to bring said wire between the lugs *a* and through the hooks C of the arms. In this position a wrench is applied to the lower end of the shaft or plug, and turned, thereby winding the wire around the lugs and down in the grooves referred to, and, as shown in figs. 1 and 2, by this winding up the wire on the plug, it is drawn taut, and to any degree of tension that may be required, and is secured thus strained up by slipping the ring E' upon the plug until the spur E enters one of the notches *a* cut in the eye B of the arms, which, as will be evident, will prevent the plug from turning back in consequence of the tension of the wire; also, by the strain exerted by the tension of the wire, the ring is held from slipping from the plug.

The arms, by their extension, hold the wire and implement steady while being operated by the wrench, and which, when done, is left hanging upon the wire by the hook C, through which the wire is made to pass, as above said.

By the use of this implement, the slack in the trellis-wire is easily and readily taken up and secured, and to any degree that may be required.

Should the wires be of great length, two of the implements may be attached for tightening them, thereby reducing the strain upon the implement and labor of the operation in its manipulations.

What I claim as my improvement, and desire to obtain by Letters Patent, is—

The plug or shaft D, studs *a'*, and ring E' as arranged, in combination with the arms A, for the purpose and in the manner substantially as set forth.

CARL SEYLER.

Witnesses:

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