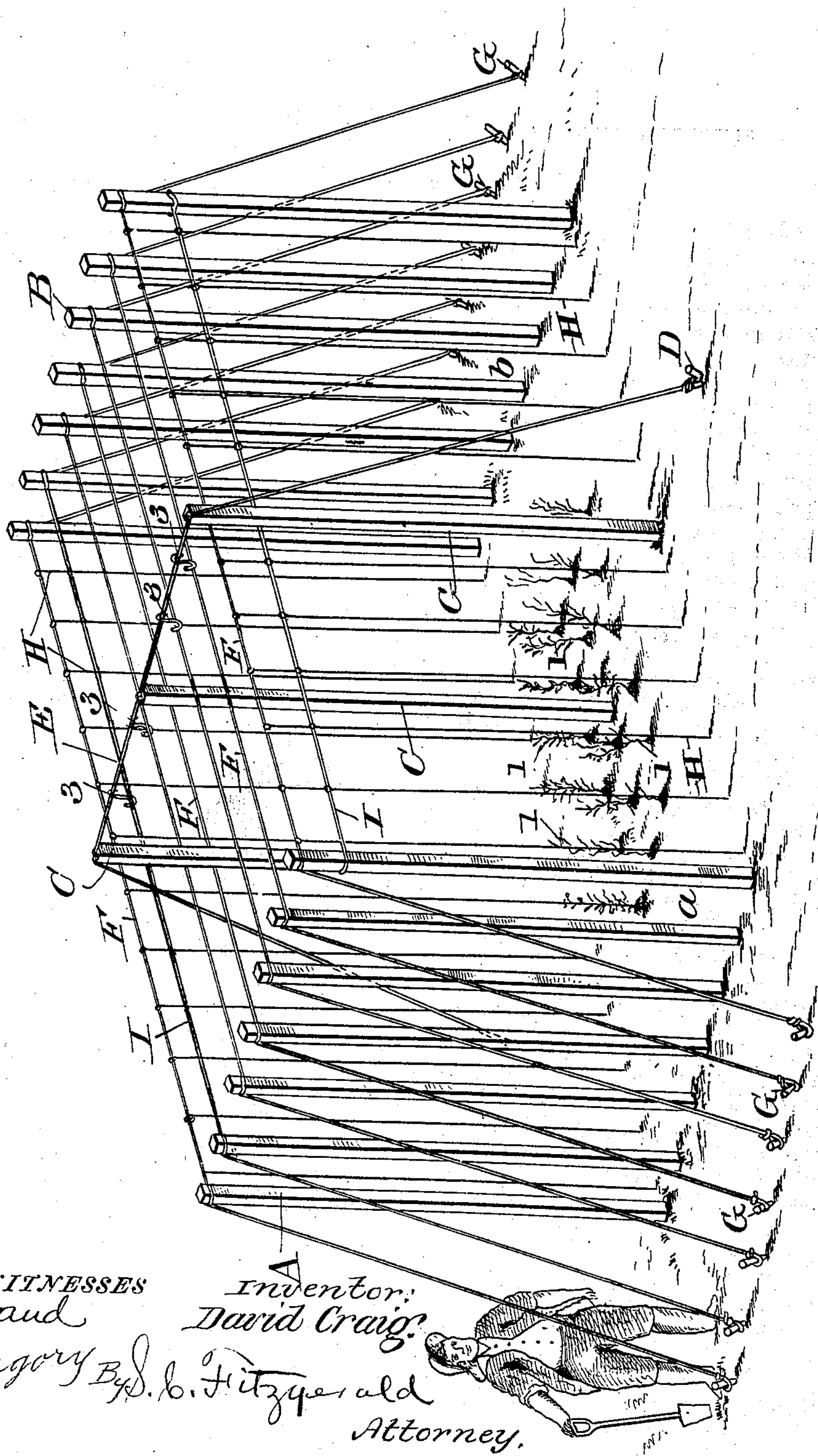


(No Model.)

D. CRAIG.  
HOP TRELLIS.

No. 501,991.

Patented July 25, 1893.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

DAVID CRAIG, OF MACLEAY, OREGON.

## HOP-TRELLIS.

SPECIFICATION forming part of Letters Patent No. 501,991, dated July 25, 1893.

Application filed March 17, 1893. Serial No. 466,511. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID CRAIG, a citizen of the United States, residing at Macleay, in the county of Marion, State of Oregon, have  
5 invented certain new and useful Improvements in Hop-Trellises; 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 ap-  
10 pertains to make and use the same.

My invention relates to an improvement in hop trellises.

The invention will first be described in connection with the accompanying drawing, and  
15 then pointed out in the claim.

The drawing is a perspective view of my improved trellis.

Referring to the drawing, A are front posts, arranged in a row at one end of the hop-yard, and B are rear posts arranged at the other  
20 end of the hop-yard. The distances  $a$  or  $b$  between the posts in the respective rows A or B, measured from center to center, is equal to the distance apart of the hop-vines 1, which  
25 is usually about eight feet.

C are central or intermediate posts, which are located between the rows A and B. It will be noticed that the distance  $c$  between the posts C is three times the distance  $a$  or  $b$ .  
30

D are stakes to which the suspension wires E are attached at each end; said wires also passing over the tops of the posts C where they are permanently secured by staples 2.

F are longitudinal wires, each wire passing  
35 once around its respective posts A and B and secured to a stake G at each end, part of the wires F being supported by means of S-shaped hooks 3, attached to the suspension-wires E, and those wires F nearest the posts  
40 C being supported by upturned hooks 4 driven into the sides of the posts, eight inches from top of post.

H are twine hop-supports upon which the hop-vines are trained as desired; these sup-  
45 ports being connected by a horizontal cord or wire I, running one foot to one and one-half feet below the wires F, by means of which connecting cord or wire, all slipping of the twine hop-supports longitudinally on the  
50 wires F is prevented. It will be noticed that by my construction the wires E and F not

only serve to sustain the weight of the hop-vines, but also act as braces for their respective posts, by being fastened to the stakes at each end. Furthermore, by using the sus- 55  
pension wires E, I avoid the use of so many posts as are commonly used in those trellises with which I am acquainted; thus giving more room in the hop-yard, both in cultivat-  
60 ing and in picking the hops, saving the first cost of the posts, and also saving the expense of their renewal, as they decay in a short time. But the most important advantage of my construction is that the wires F may be unhooked  
65 from their supports and lowered to the ground to permit the hop-pickers to readily reach all parts of the plants, and, after the hops have been picked, the wires F with the vines attached may be hung up again. It will be no-  
70 ticed that each intermediate post C supports eighteen hop-vines, whereas in all the trellises with which I am acquainted, not more than six vines could be supported by one post.

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

In a hop trellis, the combination with the two series of end posts, and the two series of stakes G arranged outside of and aligned with  
80 said posts, the intermediate posts C one at each side of the trellis in line between the outer posts at the ends thereof, the stakes D, arranged outside of and in line with the posts C, the wire E, secured to said stakes and also  
85 to the tops of posts C, said wire extending transversely across the trellis and being provided with depending hooks 3, the wires F, having end loops embracing the several stakes G, said wires F being each loosely connected  
90 to the upper portions of one pair of the end posts and having its central portion in position to engage the depending hooks on the transverse wire E, and cords attached to the wires F and adapted to support the vines, substantially as described and for the purpose  
95 set forth.

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

DAVID CRAIG.

Witnesses:

WILLIAM H. HOLMES,  
WEBSTER HOLMES.