

(No Model.)

E. J. FOX.  
WIRE STRETCHER.

No. 502,813.

Patented Aug. 8, 1893.

Fig. 1.

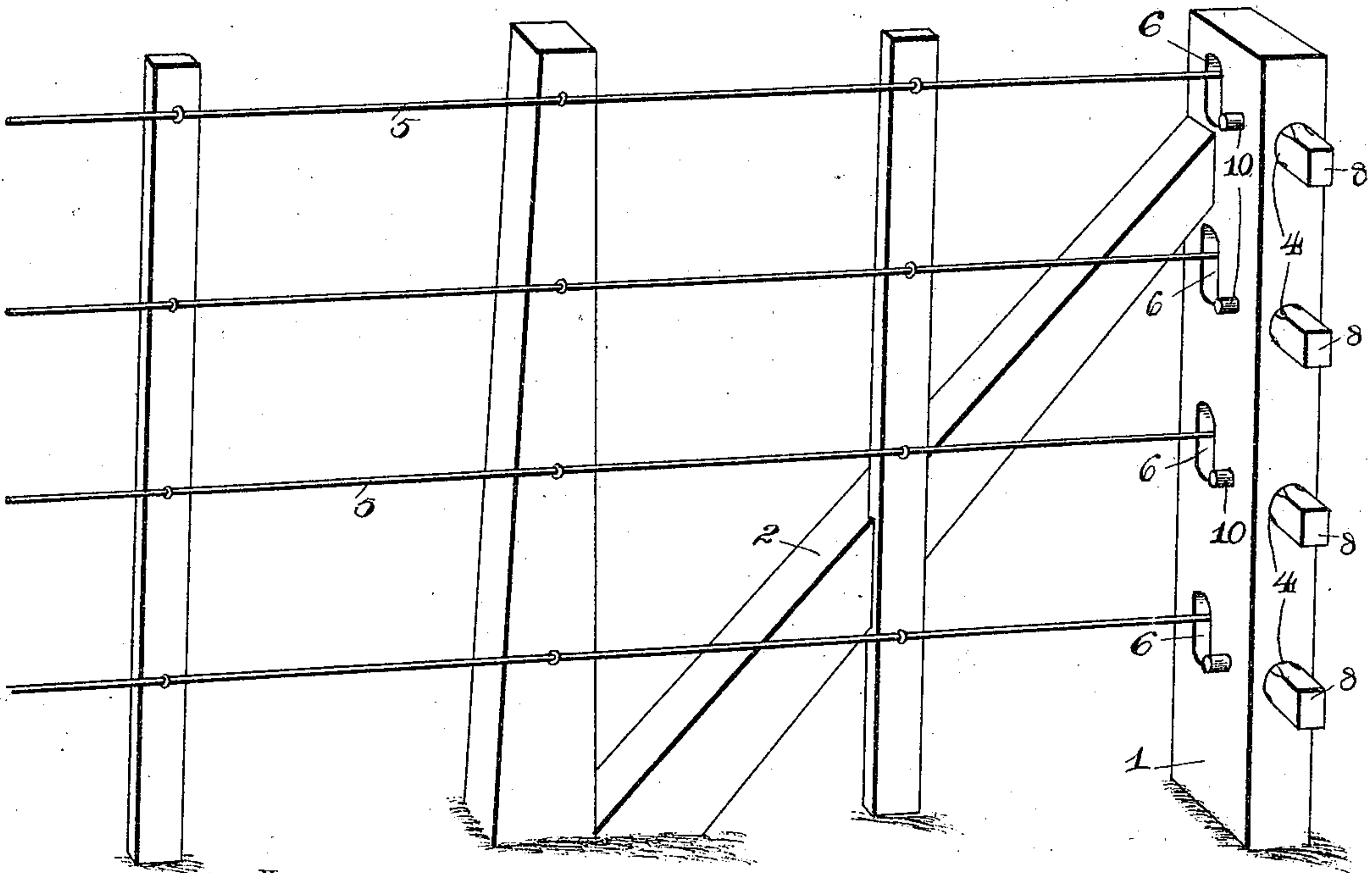


Fig. 2.

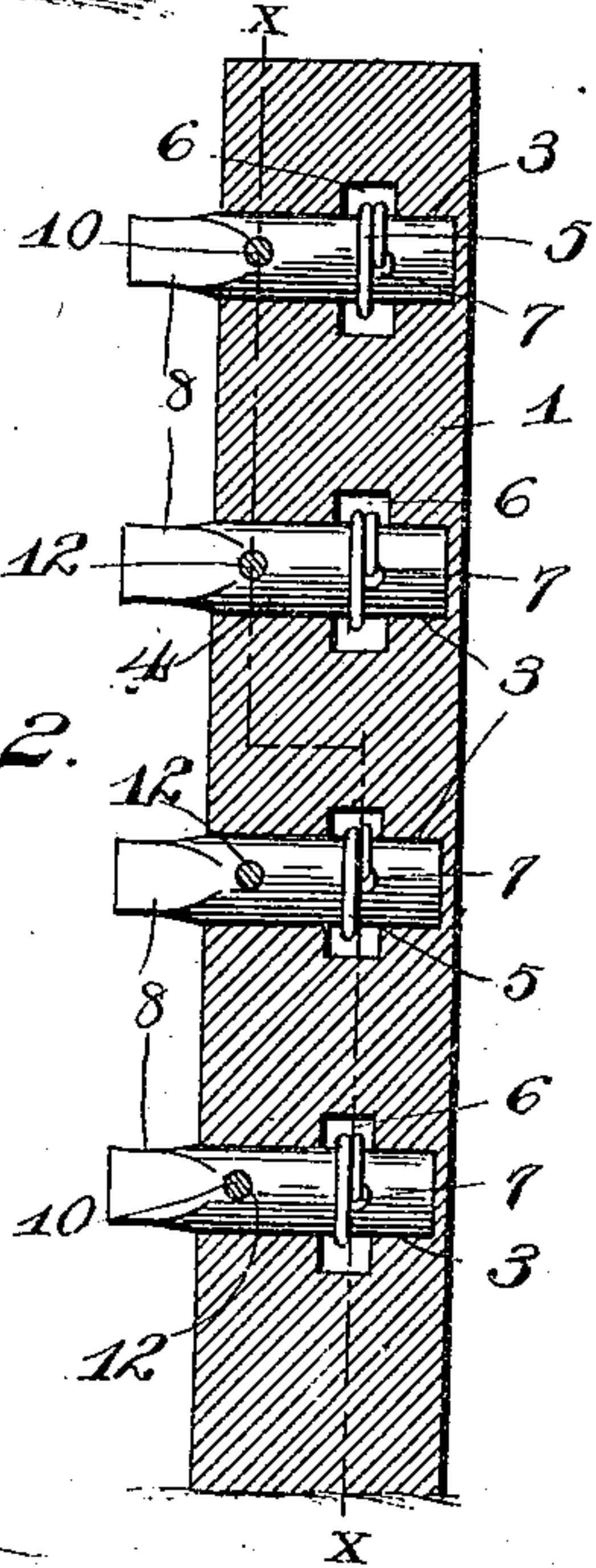
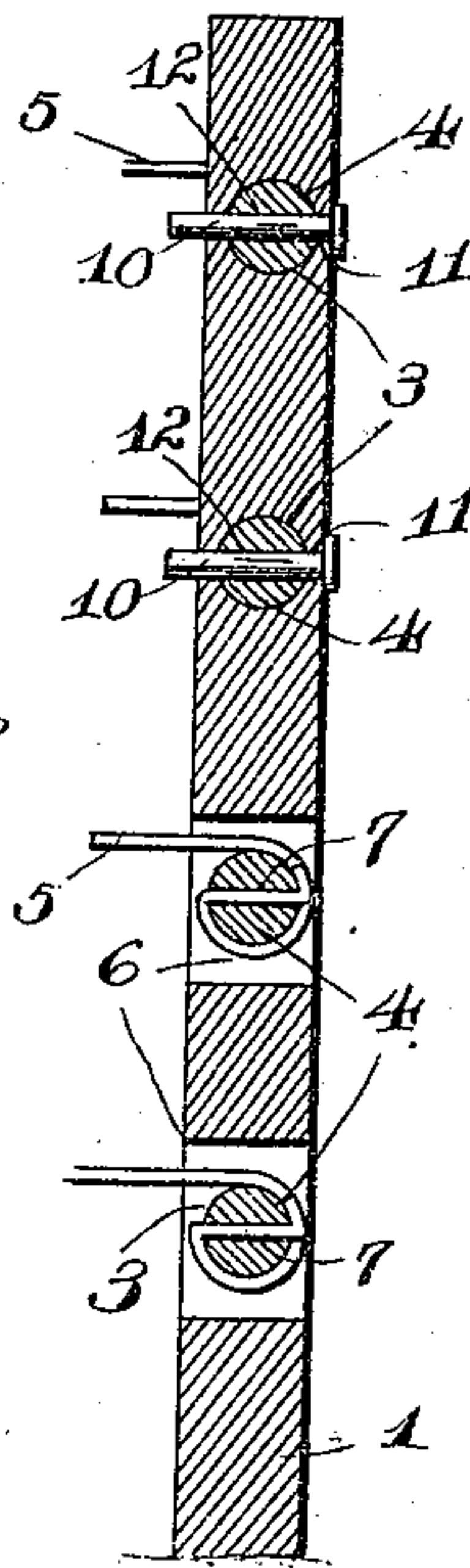


Fig. 3.



Witnesses

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# UNITED STATES PATENT OFFICE.

ELIJAH J. FOX, OF BROADWAY, OHIO.

## WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 502,813, dated August 8, 1893.

Application filed February 18, 1893. Serial No. 462,849. (No model.)

*To all whom it may concern:*

Be it known that I, ELIJAH J. FOX, a citizen of the United States, residing at Broadway, in the county of Union and State of Ohio, have  
5 invented a new and useful Wire-Stretcher, of which the following is a specification.

The invention relates to improvements in wire stretchers.

The object of the present invention is to  
10 provide a simple, inexpensive and efficient wire stretcher, adapted to be readily applied to wire fences of the ordinary construction and capable of drawing the fence wires throughout their length to the desired tension and of se-  
15 curely holding them at such tension.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings and pointed  
20 out in the claim hereto appended.

In the drawings—Figure 1 is a perspective view of a portion of a fence provided with wire stretchers constructed in accordance with this invention. Fig. 2 is a transverse sectional view. Fig. 3 is a longitudinal sectional  
25 view on line  $x-x$  of Fig. 2.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

30 1 designates a fence post, supported by an inclined brace 2 and provided with a series of horizontally disposed transverse cylindrical bearing openings 3, receiving a series of winding shafts 4 to which are attached the fence  
35 wires 5. The fence wires extend into vertically elongated openings 6 of the fence post, and are secured in wire perforations 7 of the winding shafts, whereby they are attached to the latter. The winding shafts, which are  
40 journaled in the cylindrical bearing openings of the fence post are extended beyond the latter at one side of the fence and are squared at 8 to receive a wrench, crank handle, lever, or other suitable tool for winding the fence  
45 wires around the shafts to maintain the former at the desired tension. The bearing openings terminate short of one side of the post to form stops for the shafts, and the locking pins not only retain the shafts against rota-  
50 tion, but prevent them moving longitudinally from the bearing openings. The fence wires are retained after being tightened by locking pins 10, each of which is arranged in a

perforation 11 of the fence post and engages a perforation 12 of its shaft. The locking  
55 pin perforations 11 of the post are horizontally disposed, and the locking pins securely hold the shafts against turning. The winding shafts are snugly mounted in the post and provide a compact wire stretcher, which is  
60 capable of stretching a wire throughout the entire length of the latter to the necessary and desirable tension without liability of straining the bearing. The wire openings 6 of the fence post are vertically elongated suf-  
65 ficiently to enable the fence wires to be wound around the shafts without causing the latter to bind.

It will be seen that the wire stretcher is exceedingly simple and inexpensive in con-  
70 struction, that it is efficient and positive in operation, and that it is capable of readily drawing a fence wire to the desired tension and of holding it at the same.

Changes in the form, proportion and the  
75 minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

80 In a wire stretcher, the combination of a fence post provided with a series of transversely arranged horizontally disposed cylindrical bearing openings not extending through the post and having a vertical series of elon-  
85 gated wire openings communicating with the bearing openings, said post being provided with a vertical series of perforations arranged between said wire openings and the corner of the post and intersecting the bearing open-  
90 ings, a series of winding shafts journaled in the bearing openings and extended beyond the post and provided with wire and locking pin perforations, and a series of locking pins arranged in the perforations of the post and  
95 engaging the locking pin perforations of the shafts and retaining the shafts in the journal openings, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in  
100 the presence of two witnesses.

ELIJAH J. FOX.

Witnesses:

FRANK WELCH,  
GEORGE W. FREEMAN.