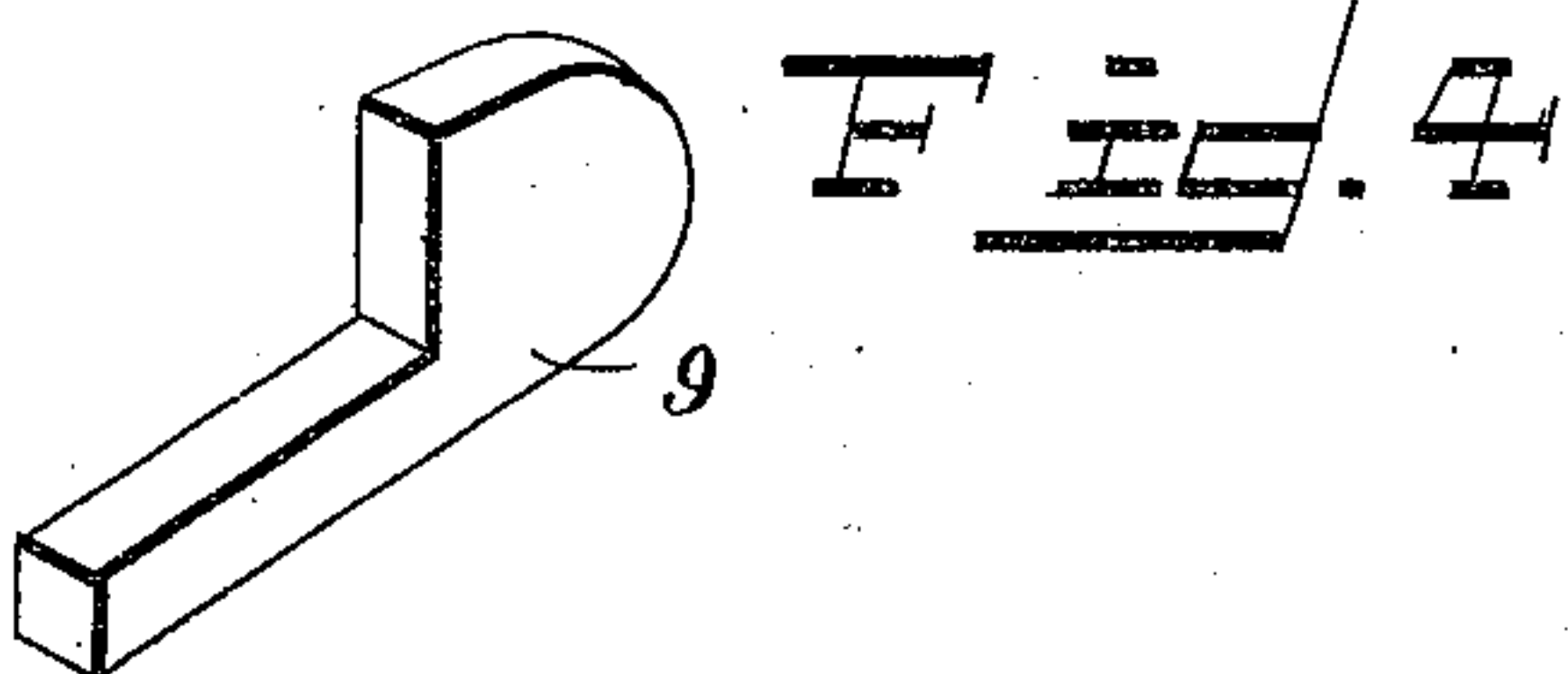
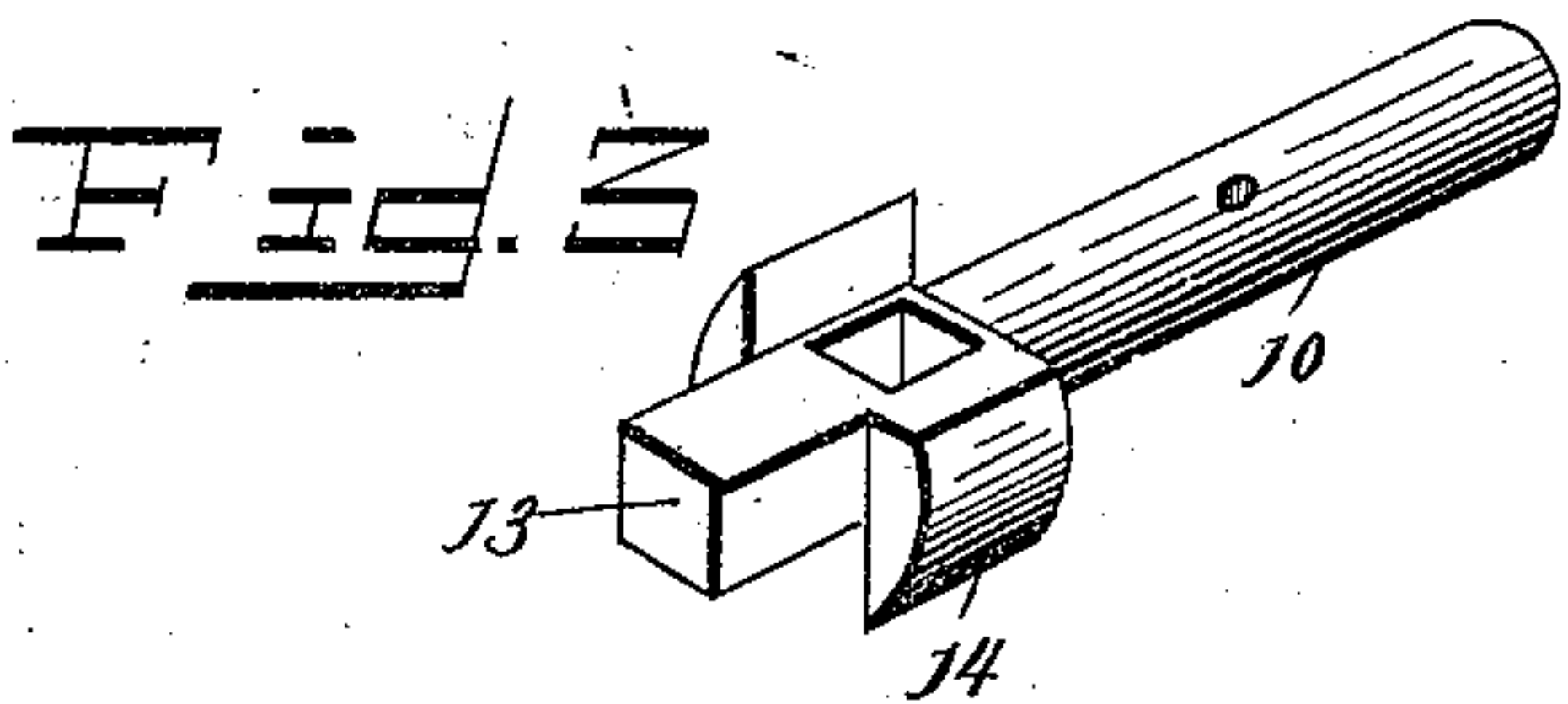
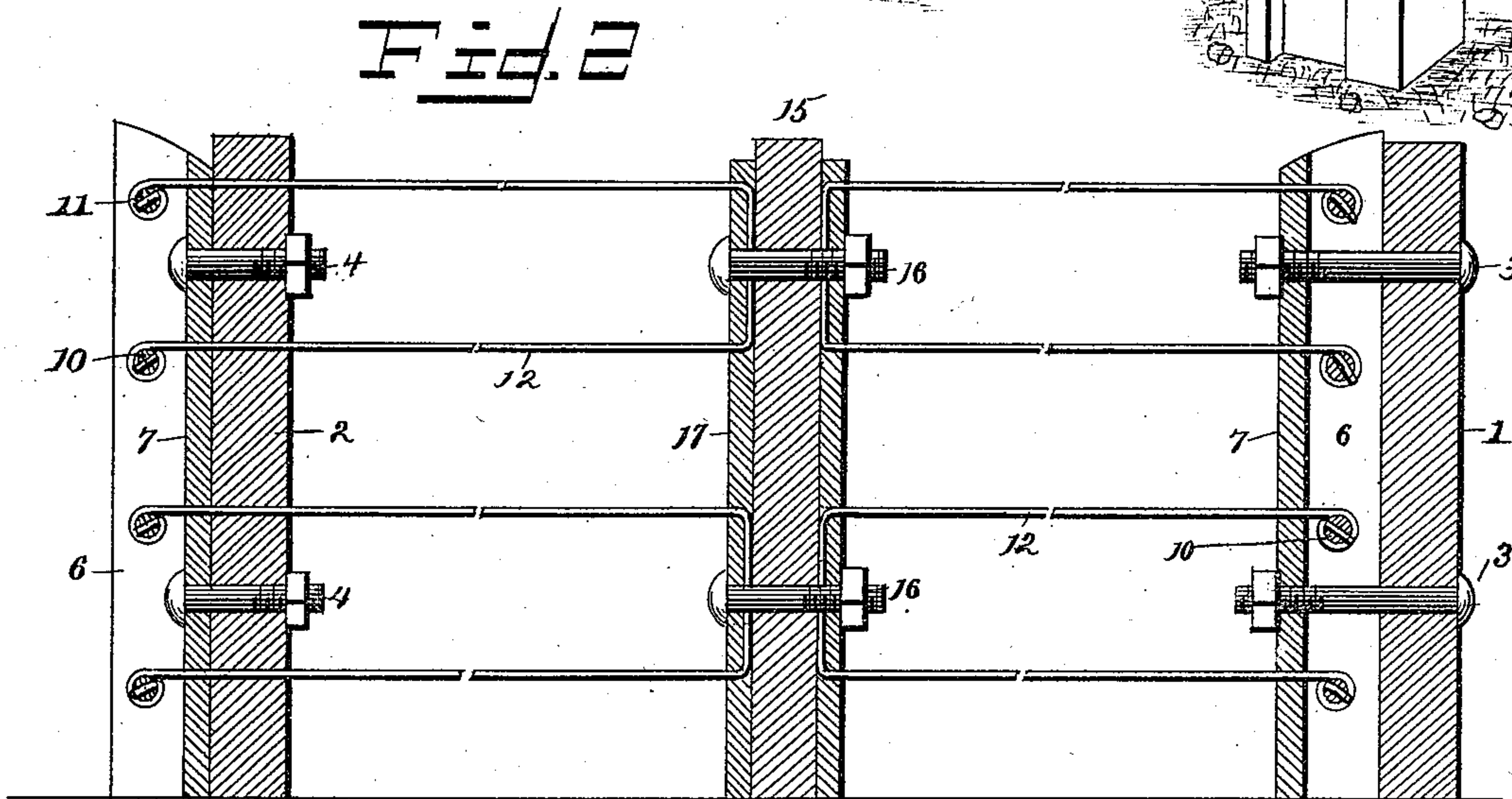
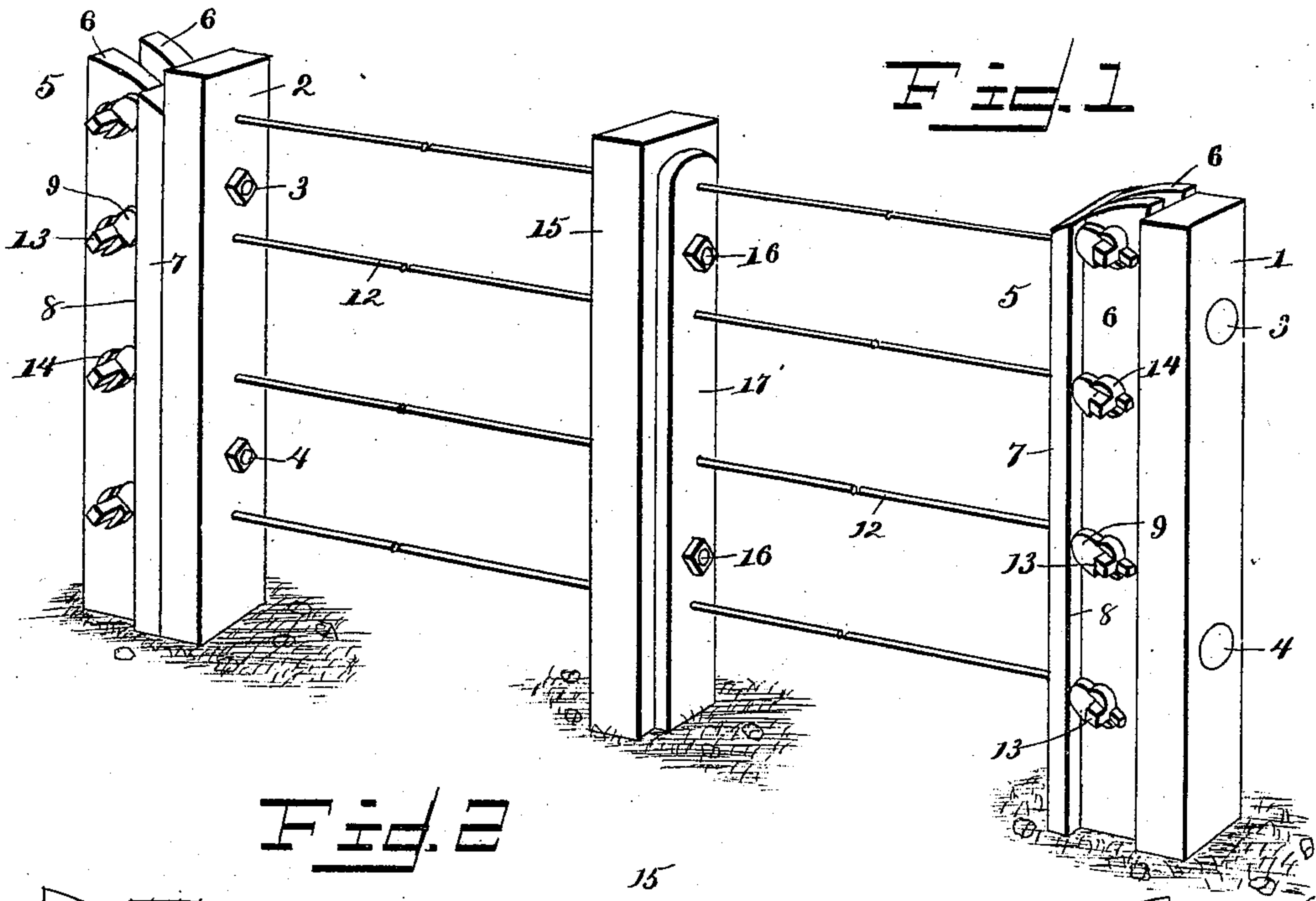


(No Model.)

A. SCHALK & A. WEINANDY.
WIRE STRETCHER.

No. 504,368.

Patented Sept. 5, 1893.



Witnesses

Attestingly
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UNITED STATES PATENT OFFICE.

ANTHONY SCHALK AND AUGUST WEINANDY, OF NEW RIEGEL, OHIO.

WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 504,368, dated September 5, 1893.

Application filed May 5, 1893. Serial No. 473,154. (No model.)

To all whom it may concern:

Be it known that we, ANTHONY SCHALK and AUGUST WEINANDY, citizens of the United States, residing at New Riegel, in the county of Seneca and State of Ohio, have invented a new and useful Wire-Stretcher, of which the following is a specification.

The invention relates to improvements in wire stretchers.

10 The object of the present invention is to provide for wire fences a simple and inexpensive stretcher, capable of readily straining the fence wires to the desired tension.

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

20 In the drawings—Figure 1 is a perspective view of a fence constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view. Fig. 3 is a detail perspective view of one of the pins or shafts. Fig. 4 is a similar view of one of the keys.

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

30 1 and 2 designate end posts having secured to them by horizontal bolts 3 and 4, wire stretcher frames 5, which may be as illustrated in the accompanying drawings located on either the inner or outer faces of the end posts. The wire stretcher frame 5 consists of parallel side boards 6, and a back 7 to which 35 the boards 6 are secured, and which projects laterally beyond the side boards to form vertical shoulders 8, to provide stops for keys 9 of turning pins 10. The turning pins 10 are mounted in perforations 11 of the side boards 40 6, and have the ends of fence wires 12 wound around them, and are adapted to be rotated to tighten the fence wires. Each pin is provided with a squared wrench receiving end 13, and an enlargement 14 at the inner end of 45 the squared portion; and the enlargement has opposite projecting shoulders for supporting the key 9. The key 9 has a head which rests upon the pin, and is adapted to bear against a shoulder of the back 7 to hold the 50 pin against turning. The fence wires extend from the end posts to an intermediate post 15, which has secured on opposite faces of it

by horizontal bolts 16, vertical bars 17. The vertical bars 17 are provided with perforations, through which the fence wires are 55 passed and returned, each pair of wires being integral. By tightening the horizontal bolts 16 the wires may be stretched, and by loosening the bolts the wires are relaxed. The fence wires pass through the end post 2 as the wire 60 stretcher frame is arranged on the outer face of that end post; but, by arranging it on the inner face of the post 1, the horizontal bolts may be employed for stretching and relaxing 65 the fence wires.

Changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention. 70

It will be seen that the wire stretcher is simple and inexpensive in construction, that it is strong and durable and adapted to be readily applied to a fence, and that it is capable of maintaining the wires of a fence at 75 the desired tension.

What we claim is—

1. A wire stretcher comprising a frame composed of parallel sides provided with bearing openings, and a back secured to the sides and 80 projecting outward laterally and forming an exterior stop shoulder extending the entire length of the frame, pins arranged in the bearing openings, and keys passing through the pins and engaging the stop shoulder, substantially as described. 85

2. A wire stretcher comprising a frame composed of sides having bearing openings, and a back secured to the sides and projecting laterally from them and forming stop shoulders, pins arranged in the bearing openings 90 and having squared ends and provided with shoulder enlargements at the inner ends of the squared portions, and keys passing through the pins and engaging the squared shoulders, 95 substantially as described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

ANTHONY SCHALK.
AUGUST WEINANDY.

Witnesses:

J. V. JONES,
H. E. FLETCHER.