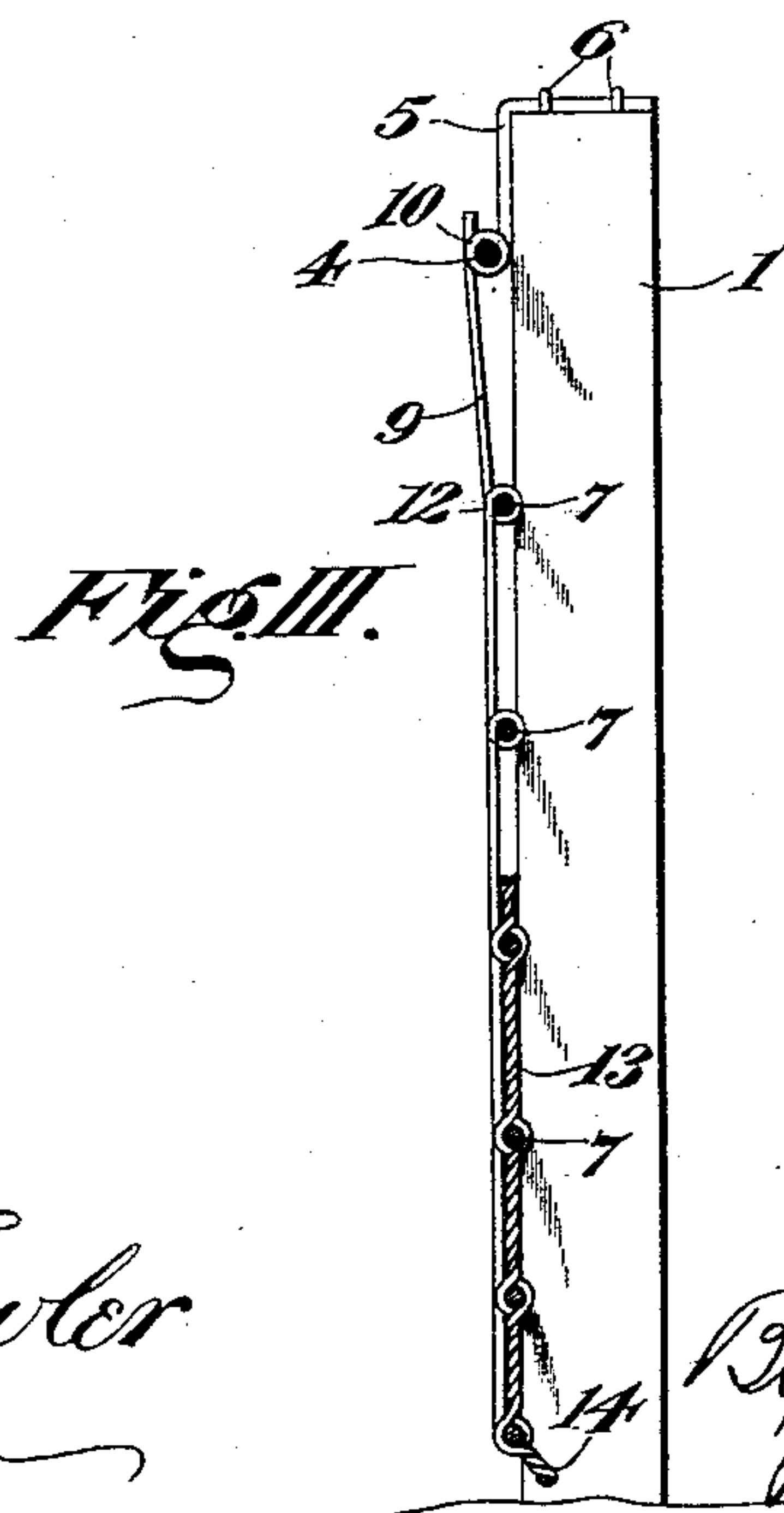
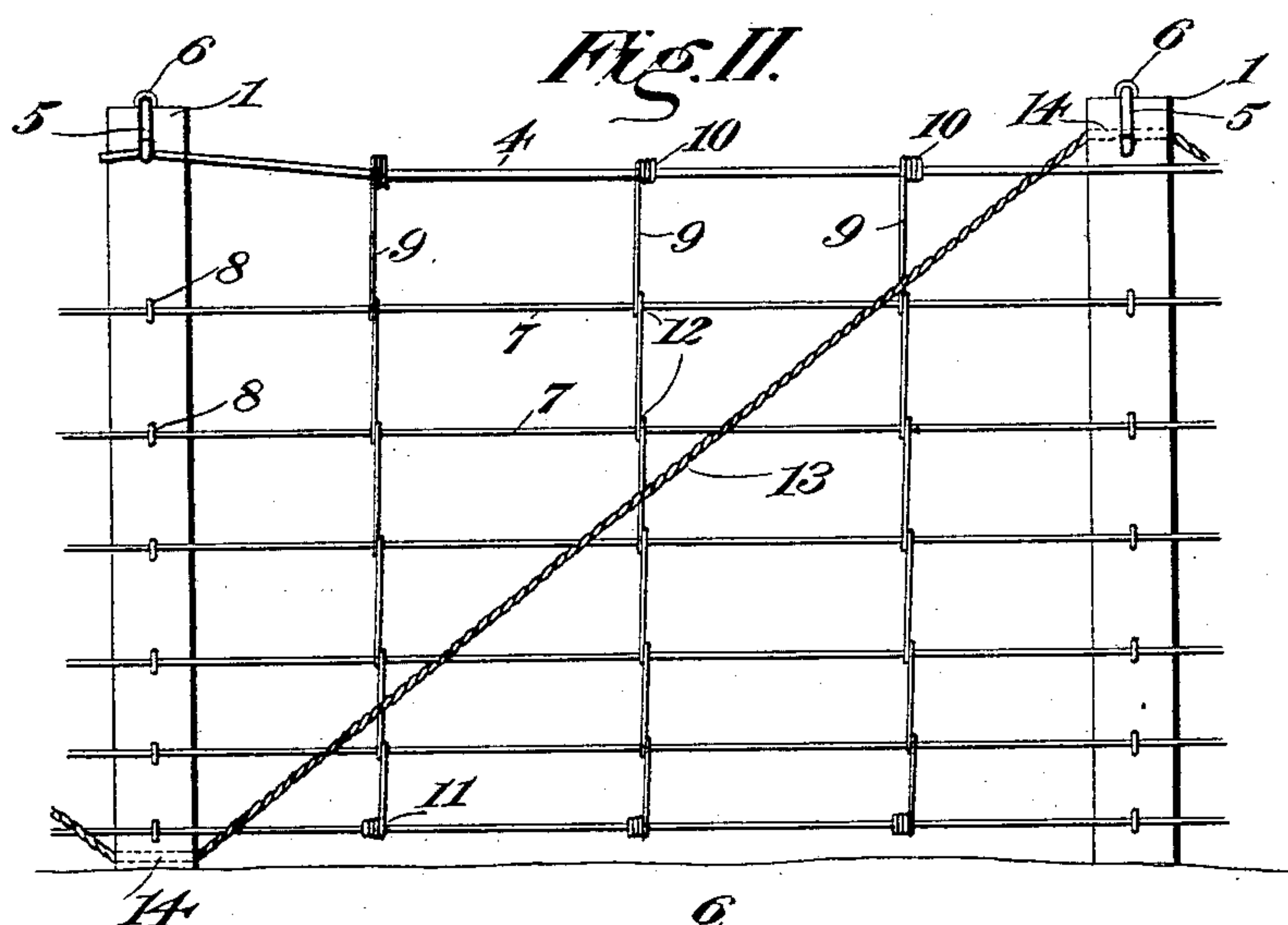
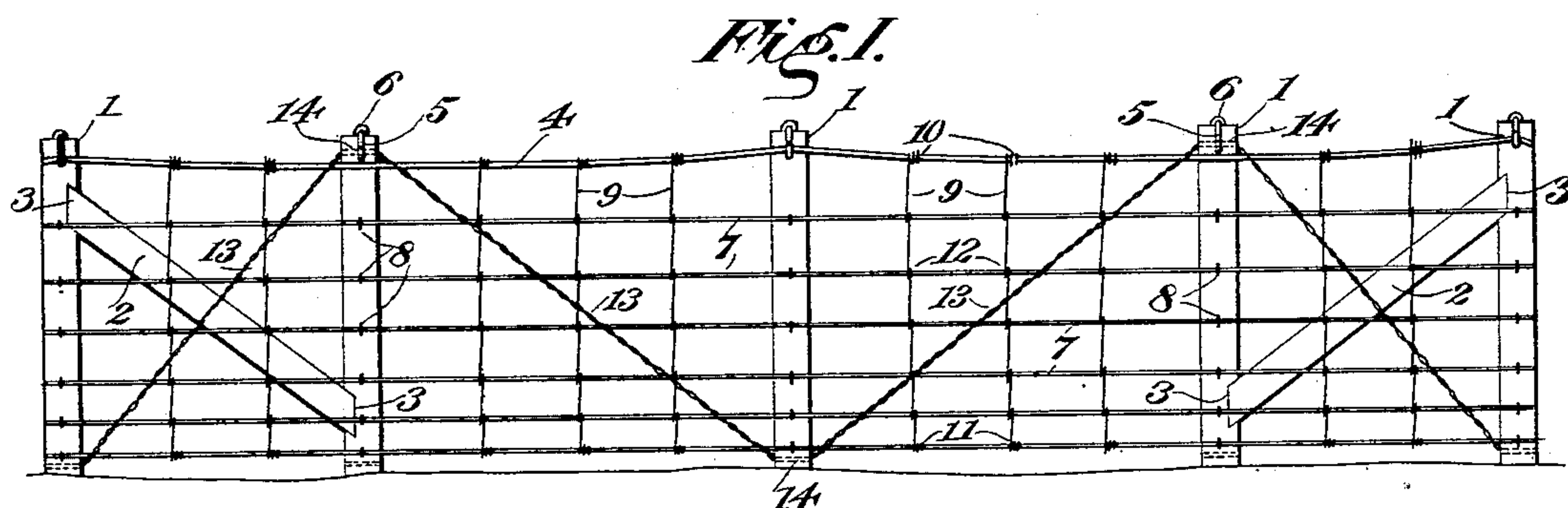


(No Model.)

L. D. HARDEN.
FENCE.

No. 591,760.

Patented Oct. 12, 1897.



Witnesses
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UNITED STATES PATENT OFFICE.

LEVI D. HARDEN, OF DEEMSTON, PENNSYLVANIA.

FENCE.

SPECIFICATION forming part of Letters Patent No. 591,760, dated October 12, 1897.

Application filed November 11, 1896. Serial No. 611,721. (No model.)

To all whom it may concern:

Be it known that I, LEVI D. HARDEN, of Deemston, in the county of Washington, State of Pennsylvania, have invented certain
5 new and useful Improvements in Fences, of which the following is a complete specification, reference being had to the accompanying drawings.

The object of my invention is to produce
10 a simple, strong, and durable fence composed entirely of wire except as to the posts, for which purpose I prefer to employ wood, and which is so constructed as to prohibit the wires from being spread apart by a hog
15 or other animal.

In the accompanying drawings, Figure I is a side elevation of a section of fence complete. Fig. II is a similar view of one panel on an enlarged scale. Fig. III is a trans-
20 verse section of the same, looking toward one of the posts.

Referring to the figures on the drawings, 1 indicates each of a series of posts, preferably made of wood and set in the ground, as
25 usual. The terminal panels of each section of fence are defined by posts located closer together than those of the intermediate panels, the distance between them being so proportionate to their height as to accommodate
30 a diagonal brace 2 at an angle of about forty-five degrees. The brace 2 is preferably made of wood, set in sockets 3 in the adjacent posts of the terminal panels, respectively.

4 indicates the top or main wire of my
35 fence, which is preferably loosely or detachably secured to the intermediate posts, as by hooks 5, the hooks being preferably made of wire, passing over the tops of the posts and secured thereto, as by staples 6.

40 Of the main wire 4 one end is secured in the usual manner to the last post of the section of the fence, and the other end is secured permanently by the use of a stretcher or adjustably by a ratchet, as preferred.

45 The remaining horizontal wires 7 are secured, as by staples 8, to the post and are stretched taut and stiff in the usual manner.

9 indicates vertical wires which, as indicated at 10 and 11, are wrapped securely
50 around the top and bottom wires and, as indicated at 12, are wrapped, preferably, once

around each of the intermediate wires. By this means all of the horizontal wires are firmly united to the top wires, in consequence whereof the top wire is denominated the
55 "main" wire, because if in use the fence should become loose the top wire can have its tension renewed by catching it upon the hooks 5 as often as may be required to take up the slackness in the longitudinal wires of
60 the fence, by which means the entire fence is again rendered stiff and taut. The hooks 5 may for that reason be elevated slightly out of the true horizontal line of the wire 4,
65 extending between its terminal supports.

13 indicates a closely-twisted plurality of wires which entwine and securely hold each one of the horizontal wires of each panel of a fence-section. The wire 13 preferably extends from end to end of each entire section
70 and being passed through holes 14 in the upper and lower ends, alternately, of each post constitutes for each panel of the fence a diagonal brace, firmly holding each horizontal wire in position and preventing the separa-
75 tion of the wires so as to allow hogs or other animals to pass through.

The wire 13 being continued from end to end of each section, the tension upon all of the panels of the section may be regulated
80 from either end of the section by the employment of suitable stretcher or other appliance.

I am aware that, broadly considered, it is not new to construct fences with horizontal
85 wires, vertical wires or pickets, and loosely-twisted diagonal wires, or to employ wooden braces, but such construction I do not broadly claim.

What I claim is—

1. In a fence, the combination with its
90 posts, horizontal wires secured thereto and vertical wires uniting the horizontal wires together, of a main wire secured to the terminal posts and united to the vertical wires,
95 and hooks secured to the posts and adapted to detachably hold the main wire and to regulate the tension of the panels of the fence through the adjustment of the tension upon the main wire, substantially as set forth. 100
2. In a fence, the combination with its posts, of horizontal wires secured to the posts,

vertical wires secured to the horizontal wires,
and a plurality of tightly-twisted wires en-
twining each one of the horizontal wires, se-
cured alternately to the top and bottom of
5 the posts, and extending continuously from
end to end of each section, substantially as
and for the purpose specified.

In testimony of all which I have hereunto
subscribed my name.

LEVI D. HARDEN.

Witnesses:

J. R. BAKER,
CHAS. MILLER.