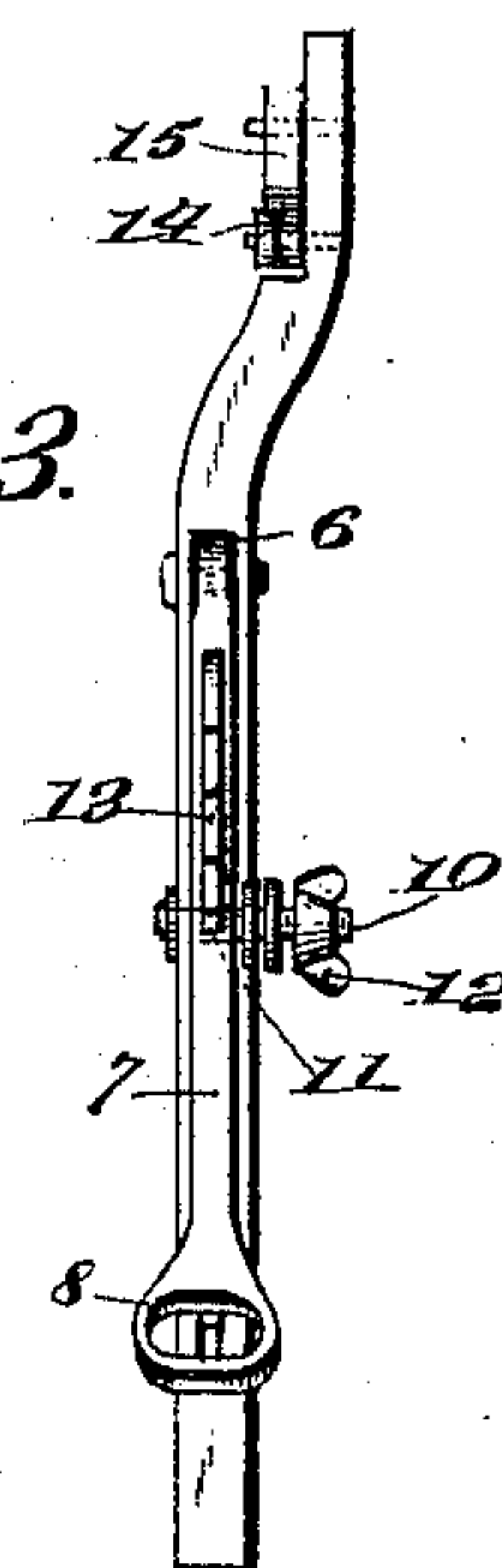
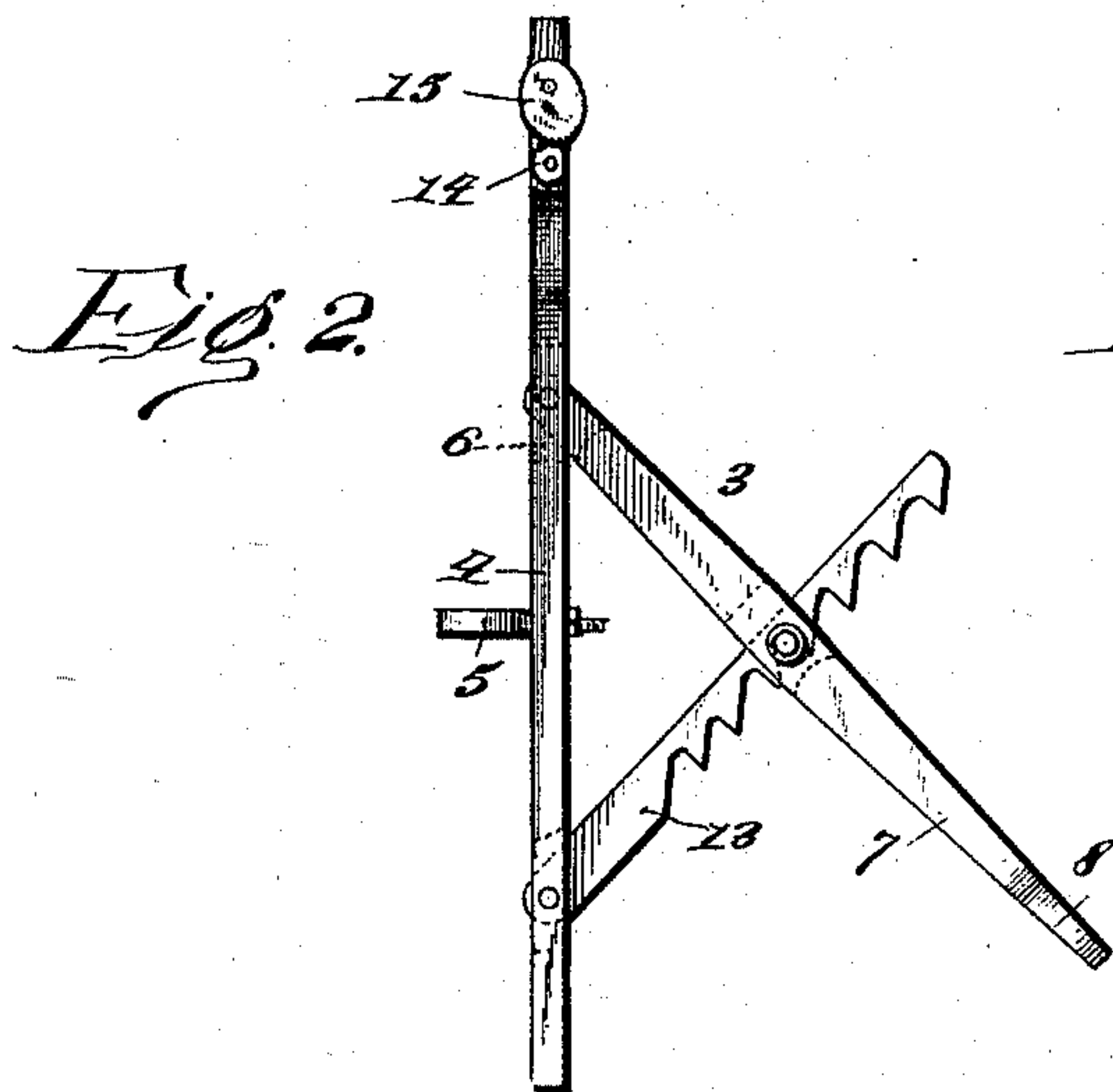
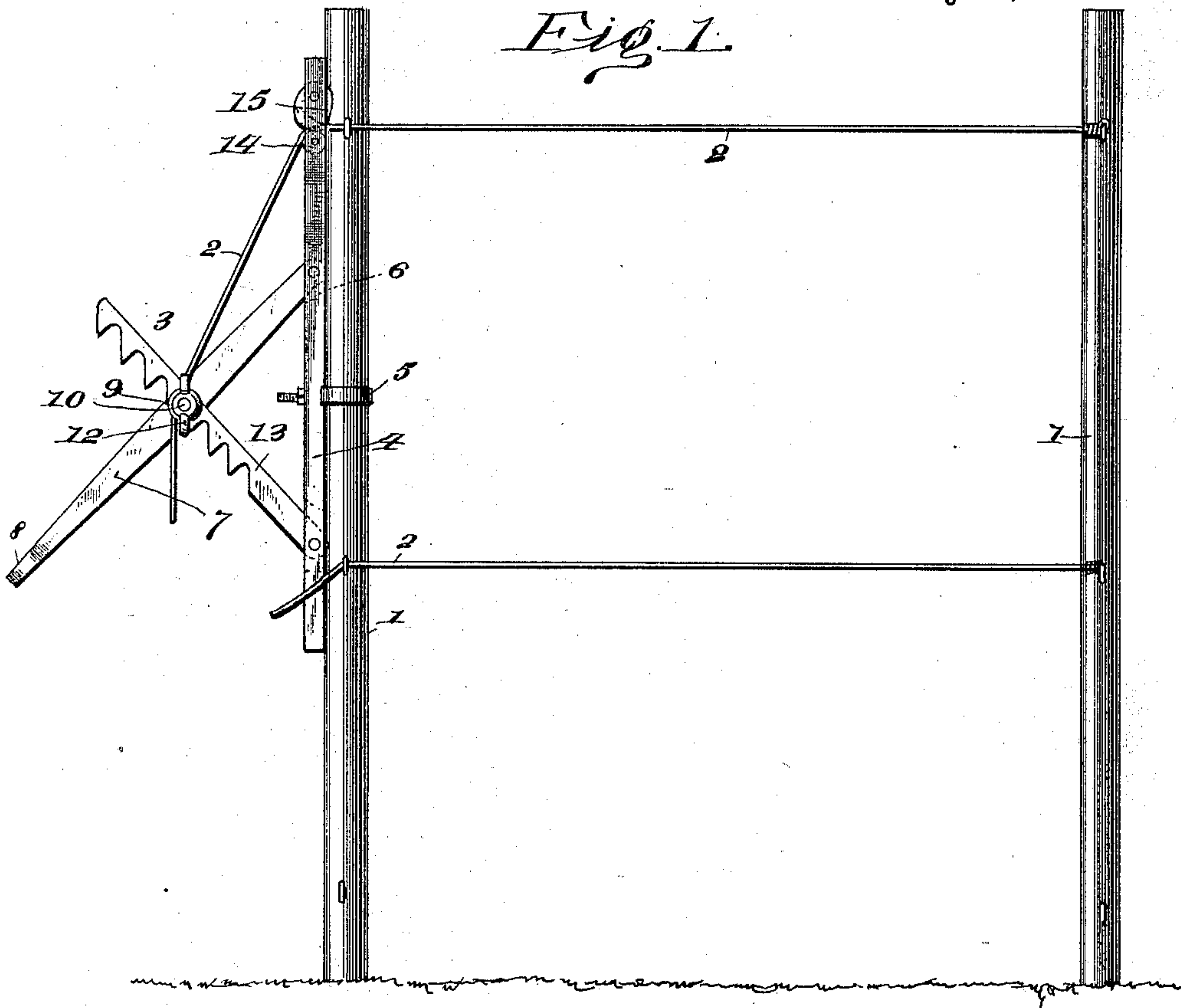


(No Model.)

W. C. CARR.
WIRE STRETCHER.

No. 559,513.

Patented May 5, 1896.



Witnesses

Theo. J. Gatchel.
William P. Wilson

Inventor
Wm. C. Carr

by *H. M. Stockbridge*
his Attorney.

UNITED STATES PATENT OFFICE.

WILLIAM CHARLES CARR, OF BALDWIN, ILLINOIS.

WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 559,513, dated May 5, 1896.

Application filed June 15, 1895. Serial No. 552,952. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM CHARLES CARR, a citizen of the United States, residing at Baldwin, in the county of Randolph and State of Illinois, have invented certain new and useful Improvements in Wire-Stretchers; 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 appertains to make and use the same.

My invention relates to improvements in wire-stretchers, the same being especially applicable to use in the building of wire fences where it is a desideratum to have the wire stretched tightly between the posts of the fence before the securing nail or staple is inserted into the post.

The invention consists of a device which is adapted to be readily attached to and detached from fence-posts, consisting of an upright beam, to which is pivoted an operating-lever provided with a securing-clamp for the wire, and a notched bar also pivoted to said upright and passing through a slot in said lever, whereby said lever is held rigidly at any point to which it may be drawn. In the upper part of said upright I arrange a tension device which prevents the backward movement of the wire after it has been drawn downwardly by the operating-lever. This consists of a roller having a milled periphery and a cam-shaped piece having a milled lower end which acts in engagement with said roller, so that the wire is free to be drawn forwardly, but is prevented from slipping backwardly.

The invention also consists in other details of construction and combinations of parts, which will be hereinafter described and claimed.

In the drawings, Figure 1 represents a view of a wire fence in course of construction with my device shown applied to one of the posts thereof. Fig. 2 is a side elevation of the same. Fig. 3 is a rear elevation of my device, shown detached from the fence.

Like reference-numerals indicate like parts in the various views.

In Fig. 1 an ordinary wire fence is shown, in which 1 represents the posts thereof, and 2 the line-wires attached to the posts by staples or other suitable means. 3 represents my

stretcher, which is made up of an upright beam 4, having a loop of metal 5 secured thereto, by means of which said upright may be conveniently attached to and detached from the fence-posts 1. The drawings show the loop 5 made of a single strip of metal. It is obvious, however, that a chain or other attaching means may be substituted therefor. Fulcrumed in a slot 6 near the upper end of the upright 4 is a lever 7, having a handle 8 upon its lower end. It is also provided with a clamping device 9, by means of which the line-wires 2 of the fence are securely held. This clamping device consists of a bolt 10, passing through a slot 11 in the lever 7, a thumb-screw 12, and suitable washers between said thumb-screw and said lever. Pivoted at a point near the lower end of the upright 4 is a notched bar 13, which passes through the slot 11 in the lever 7, the shoulders of said notches engaging the bolt 10 of said clamping device, so that said lever may be securely held at any point to which it may be turned. In the upper end of the upright 4 is loosely mounted upon a suitable pintle a roller 14, having milled edges, as clearly shown. Acting in engagement with this roller is a cam-shaped piece 15, mounted above said roller and having a milled lower edge. The cam 15 and the roller 14 form a tension device which prevents the backward movement of the line-wires 2 when the lever 7 is raised for a second grip.

The operation of my device is as follows: The stretcher being attached to one of the posts 1 in the manner described one of the line-wires 2 is drawn between the cam 15 and the roller 14 and secured to the lever 7 by means of the clamping device 9. When this is done, the lever 7 is in its upward position. Then by forcing the handle 8 downward the wire 2 is drawn through the tension device and the proper degree of tension secured, after which said wire is permanently attached to the post 1. If it is necessary in order to obtain the proper tension to stretch the wire several times by means of the lever 7, the operation just described may be continued by simply raising the lever 7 to its original position. Back pressure during this time is prevented by means of the tension device at the upper end of the upright 4. The notched bar

12 holds the lever 7 securely in any position while the securing-staples are applied to the wire and post.

Having thus described the invention, what is claimed as new is—

1. In a wire-stretcher, the combination of an upright adapted to be detachably secured to a fence-post by means of a loop or its equivalent, a lever fulcrumed in said upright and slotted at a point near its center, a clamping device on said lever composed of a bolt, washers and thumb-nut, and a notched bar pivoted to said upright and passing through the slot in said lever and engaging said bolt, substantially as and for the purpose described.

2. In a wire-stretcher, the combination of an upright adapted to be attached to and de-

tached from a fence-post, a lever fulcrumed in said upright and slotted near its center, a clamping device on said lever composed of a bolt, washers and thumb-nut, a notched bar pivoted to said upright and passing through the slot in said lever and engaging said bolt, a tension device composed of a milled roller and cam mounted in the upper end of said upright, substantially as and for the purpose described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM CHARLES CARR.

Witnesses:

JOHN T. BEAN,

J. W. MCBRIDE.