

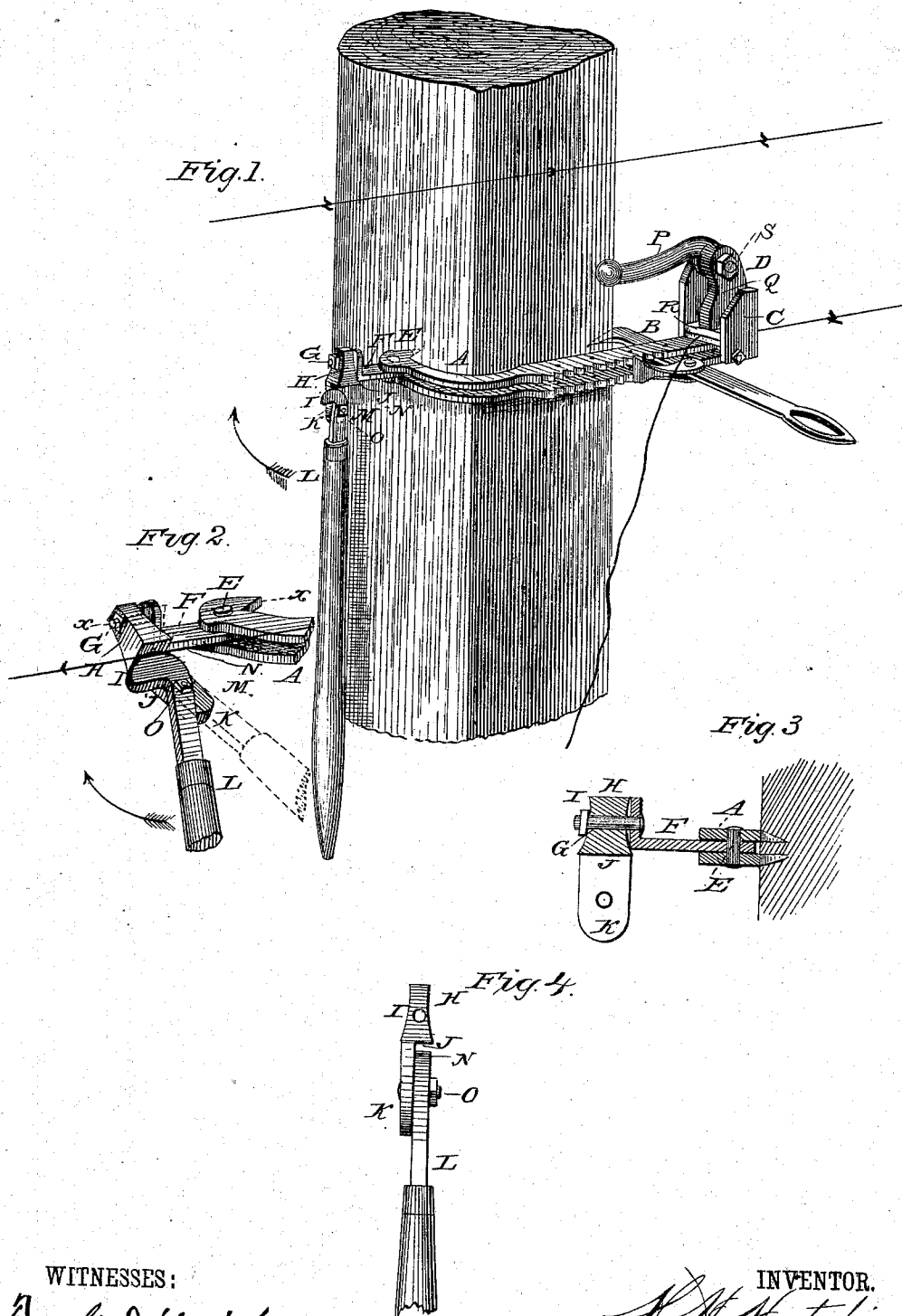
(Model.)

H. H. HUTCHINS.

WIRE STRETCHER.

No. 274,198.

Patented Mar. 20, 1883.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY H. HUTCHINS, OF FENNVILLE, MICHIGAN.

WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 274,198, dated March 20, 1883.

Application filed November 27, 1882. (Model.)

To all whom it may concern:

Be it known that I, HENRY H. HUTCHINS, of Fennville, in the county of Allegan and State of Michigan, have invented certain new and useful Improvements in Wire-Stretchers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to wire-stretchers, such as shown in my Patent No. 253,058, January 31, 1882; and it consists in certain improvements in the construction and operation of the same.

In the drawings, Figure 1 is a perspective view of the device complete; Fig. 2, a like view, showing my improvement; Fig. 3, a cross-section on the line *x x*, Fig. 2; and Fig. 4, a side view of the improvements.

The device is constructed substantially as shown in the above patent, with the hooked plate or bar A, hooked pawl-lever B, guide-box C, and eccentric clamp D. To the hooked end of bar A is pivoted, as at E, a connecting-link, F, on which is pivoted, by a pin or bolt, G, the shank H of a plate, I, having a shoulder, J, and extension K.

L designates a single lever having a hooked-shaped end, M, forming a curved edge, N. The lever is pivoted at this end to the extension of plate I by a pin or bolt, O, and the shoulder J and curved edge N may be serrated to gain securer hold on the wire.

The operation and advantages of my invention will be readily understood. The lever is first thrown back to the position shown in Fig. 2, to allow the wire to be placed between the shoulder J and end M, when the handle is drawn in a direction from the eccentric clamp, thus clamping the wire between the end and shoulder. Then, by moving the lever round

the post, as indicated by the arrow, Fig. 1, the wire is tightly clamped against the shoulder 45 by the lever and is stretched by the movement of the lever round the post, which causes the link F to turn on its pivot and carry the clamping-plate I. As it is stretched the wire is drawn through the guide C under clamp D, 50 which will automatically hold it while the lever movement is repeated.

It will be observed that, with this improved mechanism, I accomplish the stretching of the wire with but a single lever, instead of the two 55 heretofore used, and thus gain greater convenience, efficiency, and rapidity. At the same time the expense is lessened, and the device simplified and rendered more durable.

As herein shown, the clamp D is pivoted to 60 but one side of the box C on a pin, S, extending therefrom, and comprises a lever or handle, P, from the butt-end of which extends a thin shank, Q, carrying at its bottom a serrated flat plate, R, the whole forming a very 65 efficient and light eccentric clamp for holding the wire.

I claim and desire to secure by Letters Patent—

As an improvement in wire-stretchers, the 70 combination of the hooked plate A, carrying the eccentric clamp D, connecting-link F, pivoted to plate A and having an upturned outer end, the short clamping-plate I, having its enlarged shank H pivoted to the upturned end 75 of link F and provided with a straight shoulder, and the pivoted single lever L, having its curved end continued into a rounded tongue, as set forth.

In testimony that I claim the foregoing as 80 my own I have hereto affixed my signature in presence of two witnesses.

HENRY H. HUTCHINS.

Witnesses:

LAURA C. HUTCHINS,
HATTIE C. HUTCHINS.