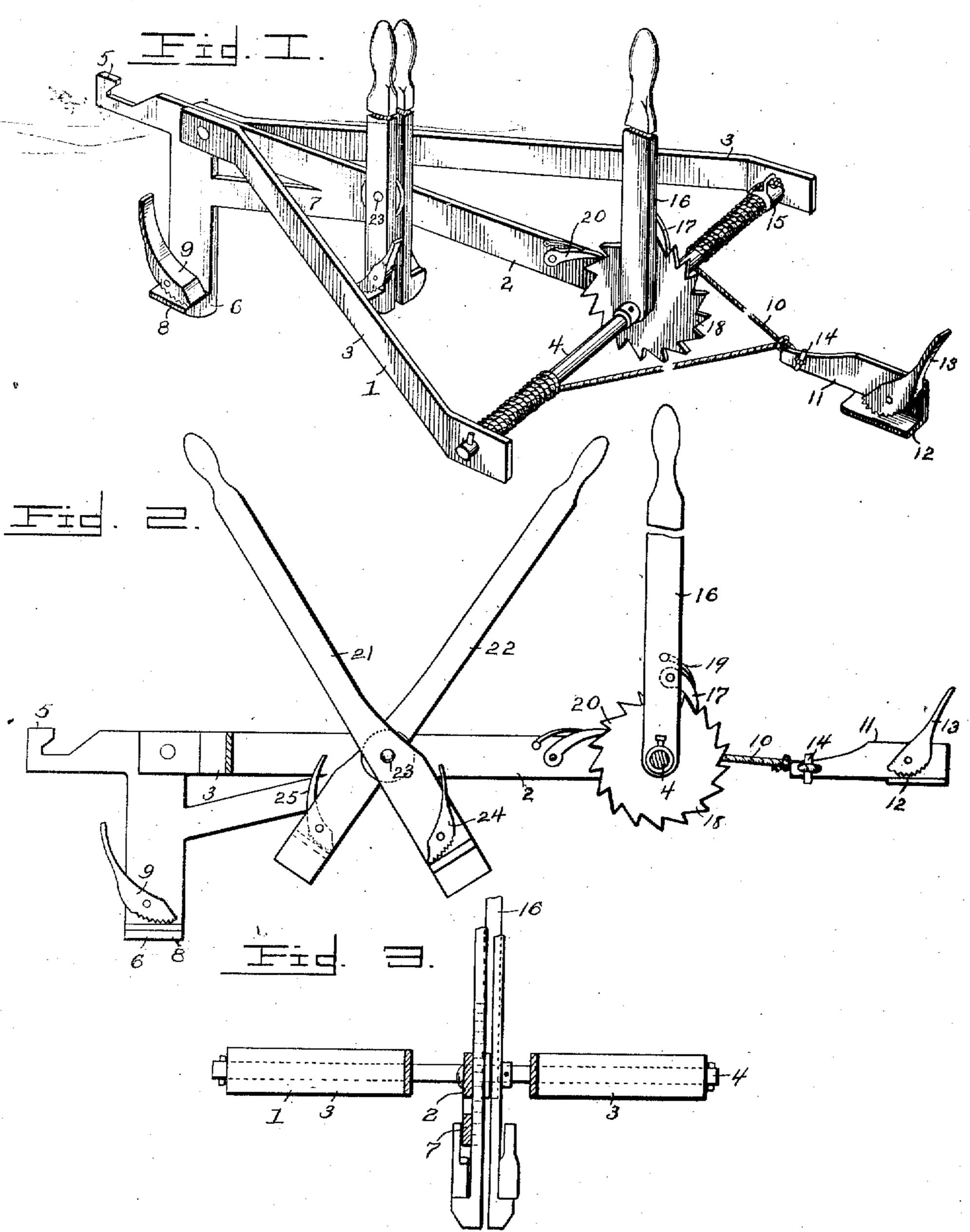
R. THOMSON, JR. WIRE STRETCHER.

(Application filed Apr. 30, 1900.)

(No Model.)



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United States Patent Office.

ROLLINS THOMSON, JR., OF EYRIE, TEXAS.

WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 658,132, dated September 18, 1900.

Application filed April 30, 1900. Serial No. 14,962. (No model.)

To all whom it may concern:

Be it known that I, ROLLINS THOMSON, Jr., a citizen of the United States, residing at Eyrie, in the county of Ellis and State of 5 Texas, have invented a new and useful Wire-Stretcher, of which the following is a specifieation.

The invention relates to improvements in wire-stretchers.

One object of the present invention is to improve the construction of wire-stretchers and to provide a simple and comparativelyinexpensive one capable of readily stretching fence-wires to the desired tension and of 15 holding the same while they are being stapled or otherwise secured to a fence-post.

A further object of the invention is to provide a wire-stretcher of this character adapted to be readily employed as a mid-wire take-20 up and capable of drawing the ends of a broken wire together, so that the same may be readily spliced.

The invention consists in the construction and novel combination and arrangement of 25 parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective 30 cordance with this invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view.

Like numerals of reference designate corresponding parts in all the figures of the draw-

35 ings. 1 designates a main frame provided with a central longitudinal bar 2 and having diverging sides or braces 3, arranged at an angle to each other and to the rear portion of the bar 40 2 and adapted to support the ends of a transverse shaft 4, which is journaled in suitable bearings of the central longitudinal bar 2 and the sides or braces 3. The rear end of the central bar 2 is provided with a hook 5, adapt-45 ed to engage links of a chain, whereby the main frame may be anchored to a post or

other suitable support. The main frame is provided at its rear end with a depending clamp 6, having its body 50 portion formed integral with the central bar 2 grade rotation by a spring-pressed pawl 20,

clamp 6 may be formed of separate pieces and suitably secured to the main frame, if desired. The body portion of the clamp 6 is provided 55 with a rigid flange or jaw 8, against which a wire may be clamped by a pivoted cam-lever 9, having a corrugated or serrated engaging face and mounted on the body portion of the clamp adjacent to the flange or jaw 8, as 60 clearly illustrated in Figs. 1 and 2 of the accompanying drawings.

The end portions of the transverse shaft receive the sides of a rope or cable 10, which is connected with a clamp 11 and which is 65 adapted to be wound around the trausverse shaft by the means hereinafter described. whereby the clamp 11 is drawn toward the frame 1 and the clamp 6. By this operation a fence-wire may be stretched for securing it 70 to a fence-post when the main frame is anchored, and when the ends of a broken wire are placed in the clamps 6 and 11 they may be drawn together and held while they are being spliced. The damp 11 consists of a lon- 75 gitudinal body portion or piece provided with a rigid flange or jaw 12, which cooperates with a clamping-lever 13, pivotally mounted on the body portion of the clamp and provided with a corrugated or serrated adjacent 80 view of a wire-stretcher constructed in ac- face, whereby it is capable of securely gripping a wire. The rope or cable 10, which may be attached to the clamp 11 in any suitable manner, is preferably looped through a perforation of the body portion of the said clamp 85 11 and secured to the same by a pin 14 or other suitable fastening device. This will enable the clamp to be readily removed from the rope or cable without detaching the latter from the shaft, which is provided with suit- go able loops or ears 15 for the reception of the ends of the rope or cable.

The transverse shaft is actuated by an operating-lever 16, fulcrumed at its lower end on the shaft and adapted to oscillate inde- 95 pendently of the same and provided with an actuating-pawl 17, which is held in engagement with a ratchet-wheel 18 by a spring 19. The ratchet-wheel, which is located adjacent to the central bar 2 of the frame 1, is suitably 100 fixed to the shaft, and it is held against retroand supported by an inclined central brace 7; pivotally inounted on the central longitudibut the latter and the body portion of the | nal bar 2 and located in rear of the ratchetwheel. By oscillating the lever-16 the shaft will be rotated and the sides of the rope or cable will be wound around the end portions of the shaft, as will be readily apparent.

In stretching fence-wires for securing them to fence-posts the main frame may be anchored or the wire may be looped around the post and connected with the clamps 6 and 11, one clamp being secured to the wire at one side of the loop and the other being connected with the other side of the loop. By drawing the clamps together the wire will be stretched

the clamps together the wire will be stretched and held while it is being stapled or otherwise secured to the fence post. In order to enable the end portions of a broken wire to be readily stretched between the clamps 6 and 11 after the latter have been operated, a pair of levers 21 and 22 are employed and are fulcrumed on the bar 2 at a point between the ends thereof by a pivot 22.

the ends thereof by a pivot 23. Each lever is provided at its lower end with a clamp, and these clamps 24 and 25 are reversely arranged, and each consists of a fixed jaw or flange rigid with the lever and a pivoteu cam or clamping lever, similar to those heretofore described.

The upper ends of the levers 21 and 22 are provided with suitable grips or handles, and these levers are adapted to be crossed or arranged at an angle, as shown in Fig. 2, to resolve the end portions of a broken fence-wire, and by drawing them together to the position shown in Fig. 1 or by crossing them in the opposite direction the end portions of the wire between the clamps 6 and 11 are stretched

35 and may be held in convenient position for splicing them.

It will be seen that the wire-stretcher is exceedingly simple and inexpensive in construction, that it is easily operated, and that it is a stapped for stretching fence-wires adjacent to fence-posts and for splicing the ends of a broken fence-wire. It will also be apparent that the clamps 6 and 11 may be connected with a fence-wire between two fence-posts and that the device will form an efficient midwire take-up by drawing the said clamps together and enabling the slackened portion of

the wire between them to be twisted or otherwise taken up, whereby the fence-wire will be retained at a tension when the clamps are 50 removed.

What is claimed is-

1. A wire-stretcher comprising a frame, clamps connected with the frame, one of the clamps being movable and adapted to be 55 drawn toward the other, means for operating the movable clamp, and a pair of stretching-levers fulcrumed on the frame between the said clamps and provided with means for engaging the ends of a fence-wire, whereby the 60 latter may be again stretched after it has been operated on by the clamps, substantially as described.

2. A wire-stretcher comprising a frame provided at one end with a clamp, a shaft ar- 65 ranged at the other end of the frame and provided with a rope or cable, a clamp connected with the rope or cable, means for actuating the shaft, and a pair of levers fulcrumed on the frame between the ends thereof and provided with means for engaging a fence-wire,

silbstantially as described.

posed of a central longitudinal bar, diverging sides or braces, a depending portion located 75 at one end of the longitudinal bar, and means for bracing the depending portion, a clamp carried by the depending portion, a shaft journaled in suitable bearings of the longitudinal bar and the sides or braces, a ratchet—80 wheel fixed to the shaft, an operating-lever fulcrumed on the shaft and provided with means for engaging the ratchet-wheel, a rope or cable connected with the shaft at opposite sides of the ratchet-wheel, and a clamp considered with the rope or cable, substantially as described.

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

ROLLINS THOMSON, JR.

Witnesses:

K. G. STROUD, J. M. ALDERDICE.