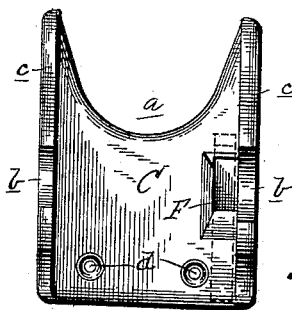
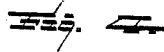
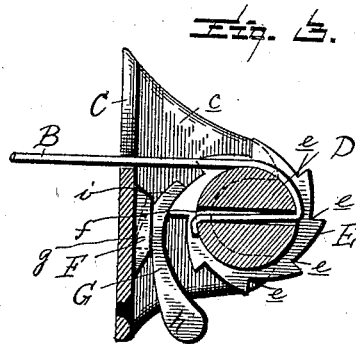
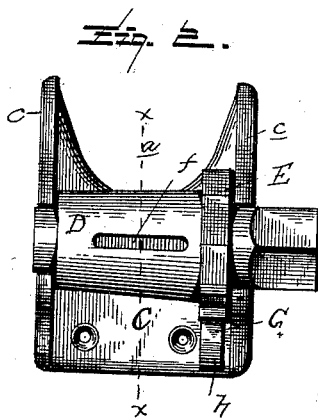
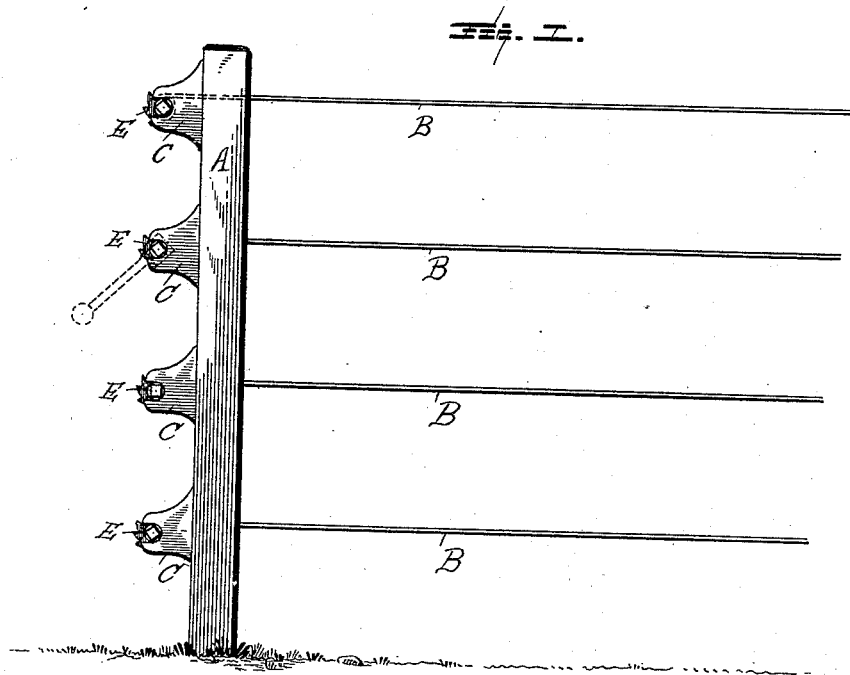


(No Model.)

J. M. KELLY.
FENCE WIRE TIGHTENER.

No. 423,382.

Patented Mar. 11, 1890.



WITNESSES
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UNITED STATES PATENT OFFICE.

JAMES M. KELLY, OF KINGSTON, INDIANA, ASSIGNOR TO HENRY HOLLENSBE,
OF SAME PLACE.

FENCE-WIRE TIGHTENER.

SPECIFICATION forming part of Letters Patent No. 423,382, dated March 11, 1890.

Application filed December 5, 1889. Serial No. 332,661. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. KELLY, a citizen of the United States, residing at Kingston, in the county of Decatur and State of Indiana, have invented certain new and useful Improvements in Fence-Wire Tighteners; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

This invention relates to certain new and useful improvements in fence-wire tighteners; and it has for its object to provide an improved device of this character which shall be simple and cheap, yet efficient in operation and durable.

I provide a bracket with a box in the back thereof for the purpose of holding the pawl in its place and preventing it from moving sidewise. A pivoted pawl pivoted in the center in said box makes it sure to catch in the notched roller or drum. My drum has but one notched flange, thus rendering it much easier to cast.

Other objects and advantages of the invention will hereinafter appear.

The invention in the present instance resides in the peculiarities of construction and the combinations, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly pointed out in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a side view of a portion of a fence the wires of which are provided with my improved tightener. Fig. 2 is a top plan view, on an enlarged scale, of one of the tighteners removed. Fig. 3 is a cross-section through the line *x x* of Fig. 2. Fig. 4 is a top plan of the bracket with the drum and pawl removed and the latter represented in its proper position by dotted lines.

Like letters of reference indicate like parts throughout the several views.

Referring now to the details of the drawings by letter, A designates a post or upright, and B the fence-wires.

C represents my bracket formed with parallel portions or ears *c*, having curved seats *b* for the pintles of the drum or roller D, and with a curved cut-away portion *a*, serving as a passage-way and guide for the wire. This bracket is formed with suitable holes *d* for the reception of the screws, nails, or other means employed to secure it to the post.

D is the drum or roller having pintles seated in the curved seats of the ears of the bracket, and one of them extended and squared or otherwise formed to receive a wrench or other tool by which it may be revolved when desired. This drum has formed thereon a flange or collar E, notched as shown at *e*, and the body of the drum is provided with a passage-way *f* for the reception and securing of the end of the wire, as seen clearly in Fig. 3. The base portion of the bracket is formed with a box F, open upon the top and one end, and this box is arranged upon that portion of the base beneath the notched flange of the drum, as shown in Figs. 3 and 4.

G is a pawl formed with a lug *g* upon its under side, as shown in Fig. 3. This lug engages the end of the box and serves to keep in place the pawl, which moves thereon as on a pivot. The upper face of the pawl is curved on lines conforming substantially to the curve of the notched flange of the drum, and at one end is formed into a thumb-piece *h* and at the other end into a point *i*, adapted to engage the notches of the flange or collar.

In practice the bracket is secured to the outer face of the post, and the end of the wire passed through an opening in the post and through the passage-way *f* of the drum and secured in any suitable manner. When it is desired to tighten the wire, it is only necessary to revolve the drum or roller, when the wire will be tightened and the pawl will automatically engage the notches of the flange of the drum and hold the same in its adjusted position. By simply pressing on the thumb-piece of the pawl the same can be disengaged from the ratchet and the wire let out when necessary. The pivoted pawl, pivoted substantially at its center and arranged at the back of the bracket, is sure to engage the teeth of the flange, and the box prevents side movement of the pawl.

The device is simple, durable, and in practice has proved very efficient.

I deem it important that the pawl be curved and that its pivot-point be substantially on a level with the center of the drum, instead of below the lower circumference of the same, as heretofore. This renders the operation of the device much easier.

What I claim as new is—

10 The improved wire-tightener consisting of the bracket formed with a box open at the top and one end, the drum provided with a notched flange, the said flange being arranged in line with the box, and the pawl pivoted

near its center in the said box with its pivot 15 substantially on a level with the center of the drum, and having its outer face formed upon a curve substantially like that of the flange, and formed with a thumb-piece substantially in line with the operating end, substantially 20 as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JAMES M. KELLY.

Witnesses:

OLIVER F. DILLIOR,

CHARLIE N. CONNELLY.