

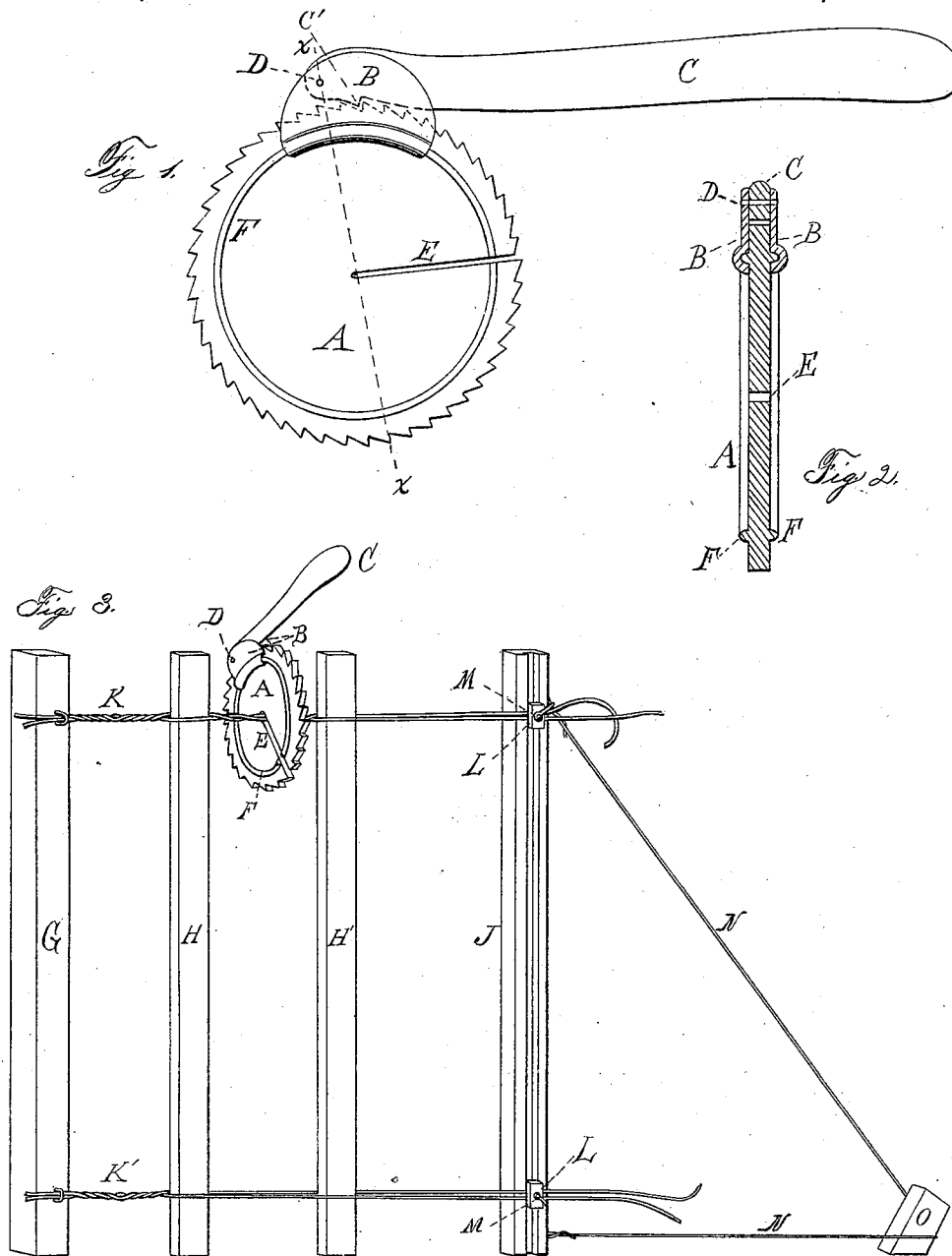
(Model.)

C. HAYNER & J. P. OWENS.

DEVICE FOR TWISTING WIRE FOR MAKING AND MENDING WIRE AND  
PICKET FENCES.

No. 342,960.

Patented June 1, 1886.



Witnesses,  
James Colbert  
Frank A. Bone

Inventors,  
Charles Hayner,  
Joseph P. Owens

# UNITED STATES PATENT OFFICE.

CHARLES HAYNER AND JOSEPH P. OWENS, OF WARREN COUNTY, ASSIGNORS  
OF ONE-THIRD TO FRANK A. BONE, OF LEBANON, OHIO.

DEVICE FOR TWISTING WIRE FOR MAKING AND MENDING WIRE AND PICKET FENCES.

SPECIFICATION forming part of Letters Patent No. 342,960, dated June 1, 1886.

Application filed February 1, 1886. Serial No. 190,520. (Model.)

*To all whom it may concern:*

Be it known that we, CHARLES HAYNER and JOSEPH P. OWENS, of the county of Warren and State of Ohio, have invented certain  
5 new and useful Improvements in Devices for Twisting Wire for Making and Mending Wire and Picket Fences, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings,  
10 forming a part of this specification, and illustrate what we consider the best means of carrying our invention into practice.

Figure 1 is a side view of our improved device for making and mending wire and picket  
15 fences. Fig. 2 is a cross-sectional view on the line *x x*, passing through the center of A and through the pivot D. Fig. 3 is a view of the device in operation on a partly-completed fence, the tension being shown in position.

20 The same letters refer to similar parts in the different figures.

Our device consists of a ratchet-wheel, A, with a slot, E, extending from the edge to a point a little beyond the center, and with ribs  
25 F near the outer edge. On each side of the ribs are fitted the clamps B, both sides of the device being constructed exactly the same as that shown in Fig. 1 of the drawings. A handle, C, having a tooth, C', works between  
30 the clamps B, which are held in place by a bolt or rivet, D. The tooth C' of the handle C works into the teeth of the ratchet-wheel, and when the handle is pushed down the wheel is turned, and when it is raised the wheel re-  
35 mains stationary.

The device is designed to work as follows: First, the wires are fastened to a post in pairs at one end, and the other ends are carried forward a suitable distance and passed through  
40 a tension device (shown at J) which consists of a longitudinally-grooved post carrying tension-blocks M, under which the wires are passed, and which are arranged to be forced into the groove by means of bolts and nuts Z.  
45 The tension device is held in place by means of a cord or wire, N, secured to the post J, and passing around a fixed stake, O. Beginning at the post G a picket is placed between the wires of each pair in a position two to six  
50 inches from the post, and the slot of the ratchet-wheel is passed over a pair of the wires be-

tween the post and picket, and the wheel is turned to twist the wires by forcing the handle downward, which causes the tooth or pawl C' of the handle to engage with the ratchet-wheel and rotate it. The handle is then raised,  
5 which frees the tooth or pawl from the ratchet-wheel and slides the clamp B along the ribs F, the wheel remaining stationary during this movement. The handle is again depressed, the  
6 tooth of the handle engages other teeth of the wheel and rotates it as before. This operation is continued until the wires have the desired twist. Then remove the wheel and place it on another pair of the wires and twist as before. When all  
6 the wires between the post and the first picket are twisted, place another picket in position and proceed as before, always twisting between the last picket and the one placed in position just preceding, as shown in Fig. 3. Continue  
7 thus until the end of the fence is reached.

To mend a broken wire, take a piece of wire and place it around a picket on each side of the breach, and fasten the ends together. Then pass the slot of the wheel over the wires at  
7 the breach, and twist the same as for twisting in a picket, as has been described above.

What we claim as new, and desire to secure by Letters Patent, is—

1. The combination of the ratchet-wheel A, 8 having a slot, E, and the ribs F, with the clamps B, arranged to slide on the ribs, and the handle C, having the tooth C', and pivoted between the clamps, and arranged to be thrown into and out of engagement with the ratchet-  
8 wheel, as and for the purpose herein set forth.

2. The ratchet-wheel A, having a slot, E, and ribs F, in combination with the clamps B, rivet or bolt D, and the handle C, having a tooth, C', substantially as and for the purposes  
9 herein set forth.

In testimony that we claim the foregoing we have hereunto set our hands in the presence of two witnesses.

CHAS. HAYNER.  
JOSEPH P. OWENS.

Witnesses:

FRANK A. BONE,  
ALF. B. CRAVER.