

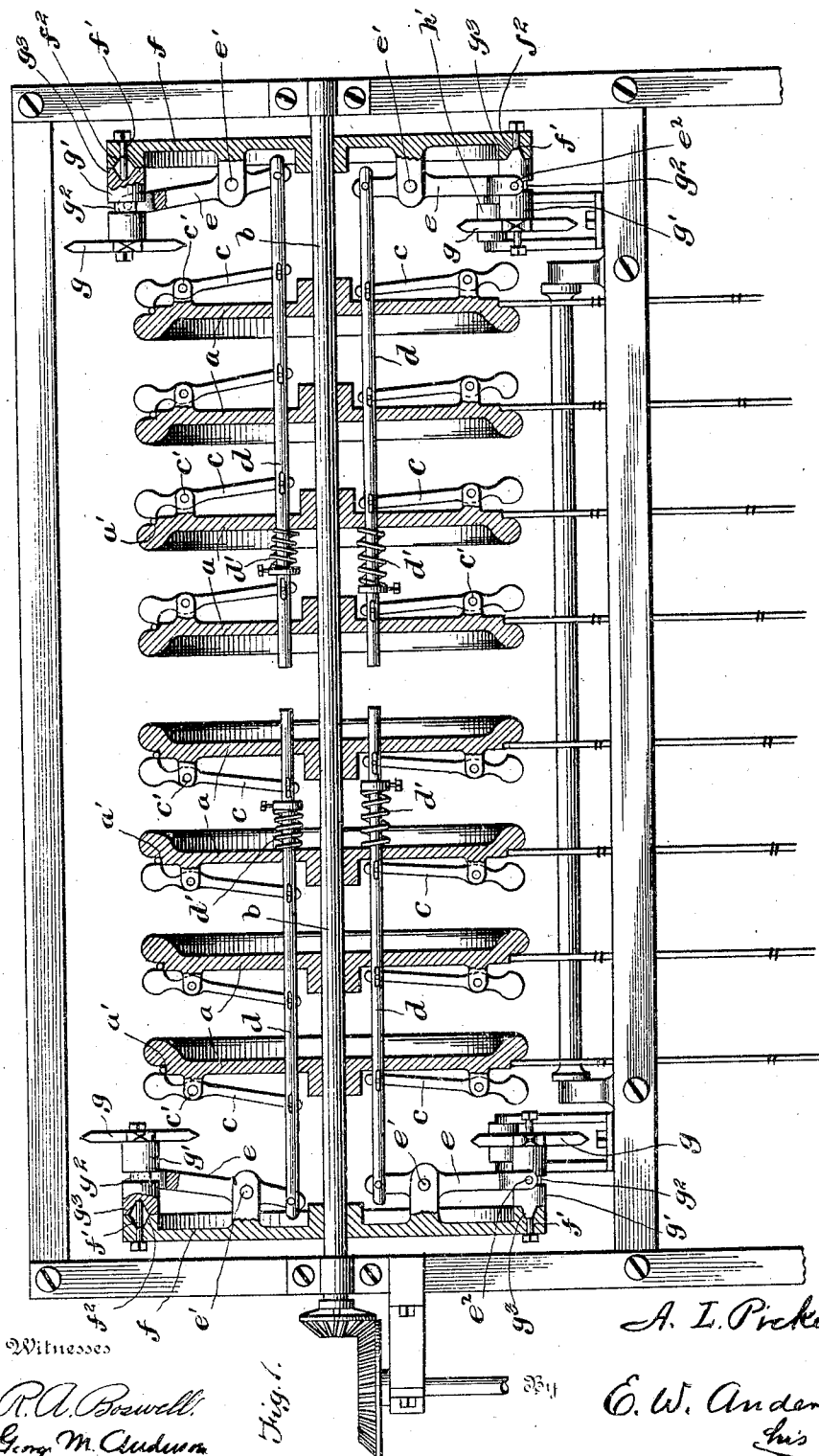
No. 789,060.

PATENTED MAY 2, 1905.

A. L. PICKERING.
FENCE MACHINE.

APPLICATION FILED MAR. 22, 1904.

2 SHEETS—SHEET 1.



Inventor

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Witnesses

R. A. Boswell.
George M. Anderson.

Fig. 1.

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2 SHEETS—SHEET 2.

Fig. 3.

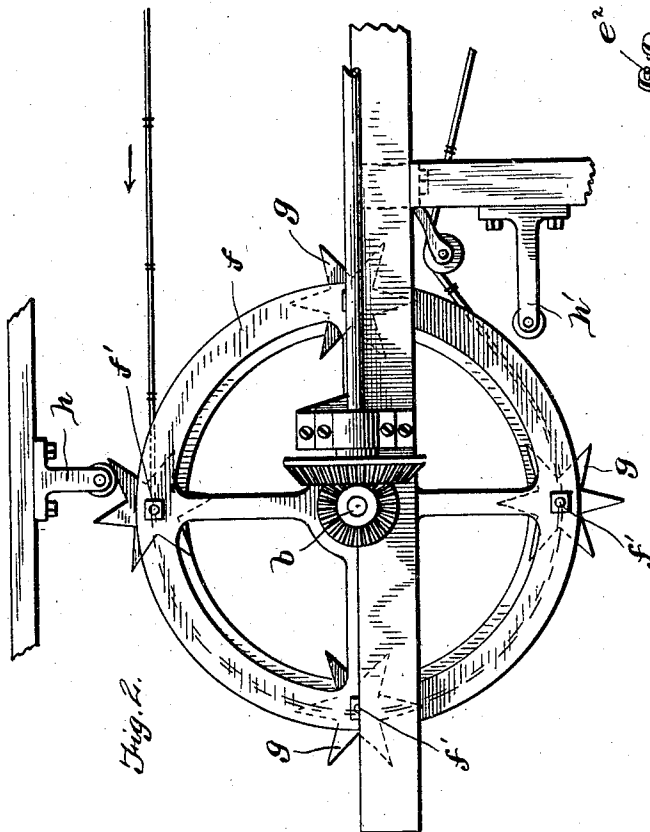
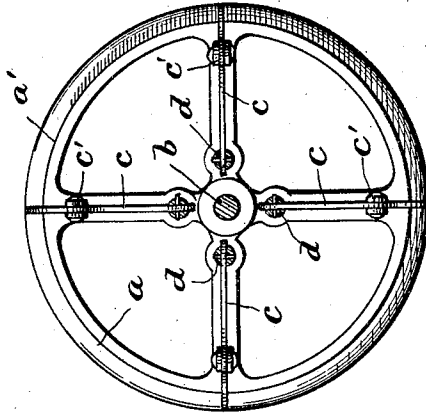


Fig. 4.

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UNITED STATES PATENT OFFICE.

ARTHUR L. PICKERING, OF ANDERSON, INDIANA.

FENCE-MACHINE.

SPECIFICATION forming part of Letters Patent No. 789,060, dated May 2, 1905.

Application filed March 22, 1904. Serial No. 199,392.

To all whom it may concern:

Be it known that I, ARTHUR L. PICKERING, a citizen of the United States, and a resident of Anderson, in the county of Madison and State of Indiana, have made a certain new and useful Invention in Fence-Machines; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a central vertical longitudinal section of my machine. Fig. 2 is a side elevation of the same, partly broken away. Fig. 3 is a face view of one of the wheels *a* and attached parts. Fig. 4 is detail view of part *e*.

This invention has relation to woven-wire fence machines, and has for its object the provision of improved means for clamping and releasing the wire strands or fence-wires being fed to or pulled out of the machine.

With this object in view the invention consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claims.

Referring to the accompanying drawings, the letter *a* designates a series of alined wheels carried by shaft *b* and around which pass the fence-wires. These wheels *a* have each a laterally-offset beveled-rim extension *a'*, forming a lateral clamping-abutment and acting to clamp the fence-wires in connection with the beveled laterally-clamping heads of radial levers *c*, having fulcrum connections with disks *a* at *c'* and engaging at their inner ends with slots of longitudinally-reciprocatory push-rods *d*. The wheels *a* are shown as arranged in opposing sets of four, facing oppositely upon the same shaft, each wheel carrying four radial clamping-levers *c*, actuated by four separate push-rods *d*, such rods having connections at their outer ends with radial intermediately-pivoted operating-levers *e*, provided with fulcrum connections at *e'* with the wheels *f*, mounted at opposite ends of the shaft *b*.

Peripherally bolted to the wheels *f* at *f'* are the rotatable star-shaped wheels *g*, the hubs

g' of which have annular grooves *g''* engaged by pins *e''* of the bifurcated end portions of the levers *e*. The wheels *g* and their hubs *g'* are arranged to have a longitudinal reciprocatory movement upon bolts *f'*, an eccentric projection *g'''* upon each hub *g'* slipping into recesses *f''* of the wheels *f* upon rotation of star-shaped wheels *g*, such engagement and longitudinal reciprocation being effected under the influence of the tension of springs *d'* upon push-rods *d*. This longitudinal reciprocation of star-wheels *g*, and consequent movement of levers *e* and push-rods *d*, will cause the clamping-levers *c*, in connection with the rim extension of wheels *a*, to clamp the fence-wires. This rotation of the star-wheels *g* is effected by engagement therewith of the trip devices *h*. Another rotation of the star-wheels to cause the clamping-levers *c* to move in the reverse direction and release the fence-wires will be effected by trip devices *h'*, separated from trip devices *h* by an arc of about ninety degrees.

The above description has reference to means for drawing the completed fence from the fence-weaving machine, to which the drawings relate. In means for feeding the fence-wires to such machine a similar arrangement of parts may be employed—that is to say, a series of carrying-wheels having clamping devices provided with operating connections actuated in the same manner, although the arrangement of parts may be different.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a fence-machine, the combination with the wire-carrying wheels having beveled offset rim-walls forming lateral clamping-abutments, of lever-arms carried by said wheels, and having laterally-beveled heads acting in connection with said walls to laterally clamp the fence-wires, and rotating devices for actuating said lever-arms at intervals to clamp and release the fence-wires, substantially as specified.

2. In a fence-machine, the combination with the wire-carrying wheels, of pivoted clamping-levers carried by said wheels, push-rods connected to said clamping-levers, and means in-

cluding tension-springs on the push-rods for reciprocating said push-rods at intervals, substantially as specified.

3. In a fence-machine, the combination with
5 the wire-carrying wheels, of pivoted clamping-levers carried by said wheels, push-rods connected to said levers, an operating-wheel, levers pivoted to said operating-wheel and connected to said push-rod, and means for moving
10 said levers at intervals to clasp and release the fence-wires, substantially as specified.

4. In a fence-machine, the combination with the wire-carrying wheels, of pivoted clamping-levers carried by said wheels, push-rods con-
15 nected to said levers, an operating-wheel, le-

vers pivoted to said operating-wheel and connected to said push-rods, rotary toothed wheels connected to the outer ends of said last-named levers, and having eccentric hub projections adapted upon rotation to engage and disengage
20 recesses in the operating-wheel to cause said levers to be actuated, and means for causing the rotation of said toothed wheels at intervals, substantially as specified.

In testimony whereof I affix my signature in
25 presence of two witnesses.

ARTHUR L. PICKERING.

Witnesses:

BELLE C. MOORE,
JULIA A. MOORE.