

Machines for Making Wire-Fences.

Patented Dec. 8, 1874.

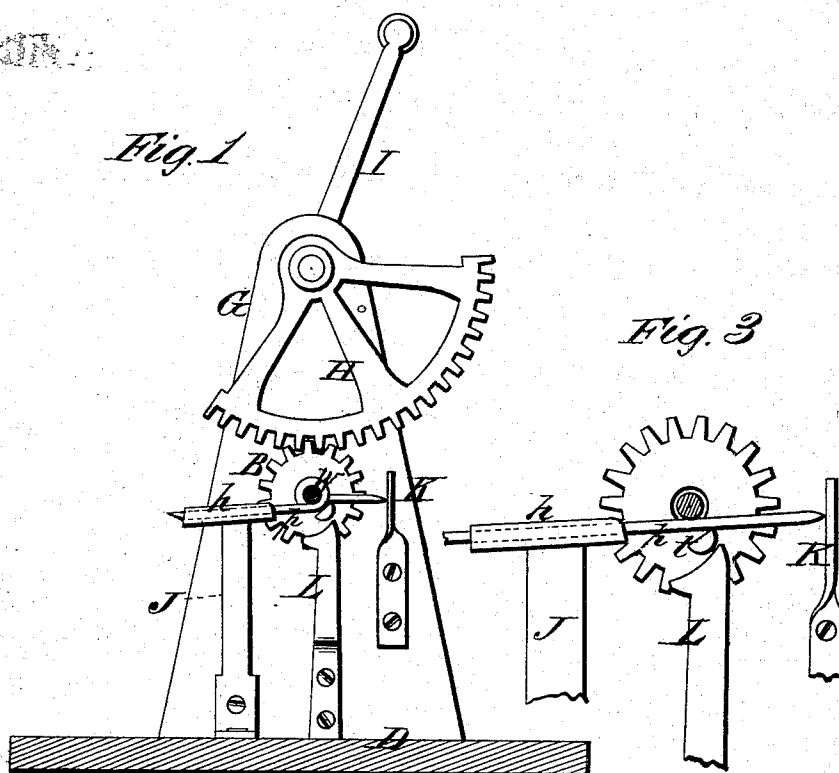
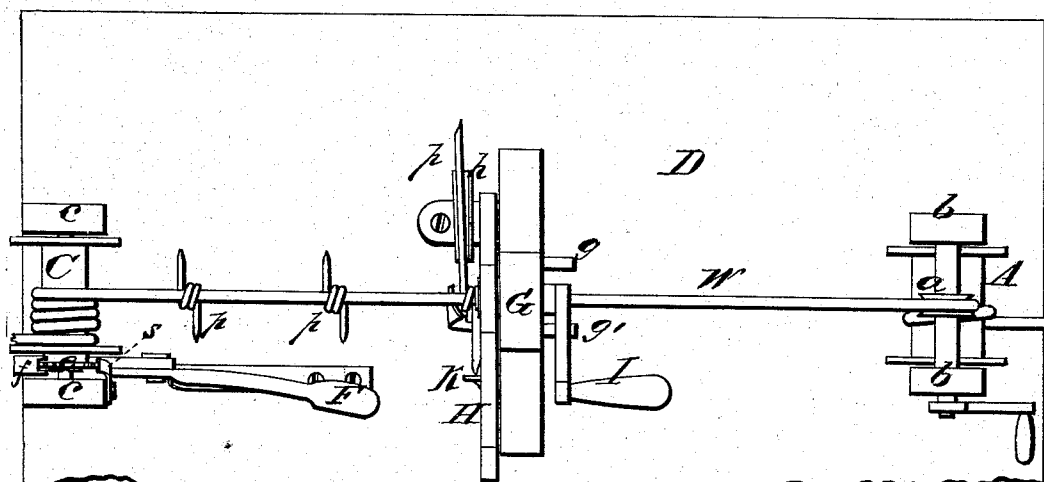


Fig. 2



WITNESSES
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UNITED STATES PATENT OFFICE.

JOSEPH F. GLIDDEN AND PHINEAS W. VAUGHAN, OF DE KALB, ILLINOIS.

IMPROVEMENT IN MACHINES FOR MAKING WIRE FENCES.

Specification forming part of Letters Patent No. **157,508**, dated December 8, 1874; application filed October 24, 1874.

To all whom it may concern:

Be it known that we, JOSEPH F. GLIDDEN and PHINEAS W. VAUGHAN, of De Kalb, in the county of De Kalb and State of Illinois, have invented a new and valuable Improvement in a Machine for Making Wire Fence; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side view of our machine. Fig. 2 is a plan view of the same, and Fig. 3 is a detail view.

Our invention is designed for facilitating the work of applying wire barbs to fence-wires; and it consists in the employment of reels, on which the fence-wire is wound, a pinion through which the fence-wire is drawn, and a segment for rotating the pinion, in combination with a twisting-lug on the face of the pinion, a guide-table, a keeper, and a gage, all constructed and so arranged that when a barb-wire is adjusted in its place, and a stroke given to the toothed segment, the barb-wire will be wound several turns on the fence-wire, as will be hereinafter fully explained.

In the annexed drawings, A designates a reel, on which the wire is wound, and from which it is taken, carried over a grooved pulley, *a*, passed through shaft of a pinion, B, and wound upon a reel, C. The reel A and the shaft of pulley *a* have their bearings in standards *b b*, rising from a foundation, D, and the reel C has its bearings in standards *c c*, rising from the same foundation. On the shaft of the reel C a ratchet-wheel, *e*, is keyed, which is rotated intermittently by means of a claw-pawl, *f*, on a long treadle, F, and which is prevented from being turned backward by a spring, *s*. The tubular shaft of the pinion B has its bearing in a standard, G, rising from the foundation D between the two reels A C,

and, with the teeth of this pinion B, engage the teeth on a vibrating segment, H, on the shaft of which a crank-arm, I, is keyed. Two stops, *g g'*, limit the length of strokes given to the segment H. J designates a standard, which carries a trough-shaped support, *h*. K designates a gage, against which one end of a barb-wire is held when first introduced into the machine to be wound upon the fence-wire, and L designates a spring-keeper, the upper curved end of which presses against the face of the wheel B, between the support *h* and the gage K. A wire, *p*, which is of the proper length, and which is pointed at both ends, is adjusted on the support *h* and against the gage K and face of the wheel B. When the barb-wire *p* is thus adjusted, it will lie over the flat side of a twisting-lug, *t*, on the face of the wheel B, as shown in Fig. 3. The segment H is then given one stroke, and the wheel B rotated, thus winding the barb-wire *p* several turns around the fence-wire W, as shown in Fig. 2. The fence-wire is then wound upon the reel C, and another barb-wire applied, and so on the work is continued, leaving the barbs at regular intervals apart.

The spring-keeper prevents the barb-wires from slipping off the twister *t* during the operation of applying them on the fence-wires.

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

In combination with the reels A C, segment H, and a pinion, B, the latter having a lug, *t*, on its face, the support *h*, keeper L, and gage K, substantially in the manner and for the purpose described.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

JOSEPH F. GLIDDEN.
PHINEAS W. VAUGHAN.

Witnesses:

J. B. GLIDDEN,
FRANK M. BLACKMAN.