H. B. SCUTT.

Machine for Making Barbed Ropes for Wire-Fences.

No. 206,623. Patented July 30, 1878.

Fig. 1.

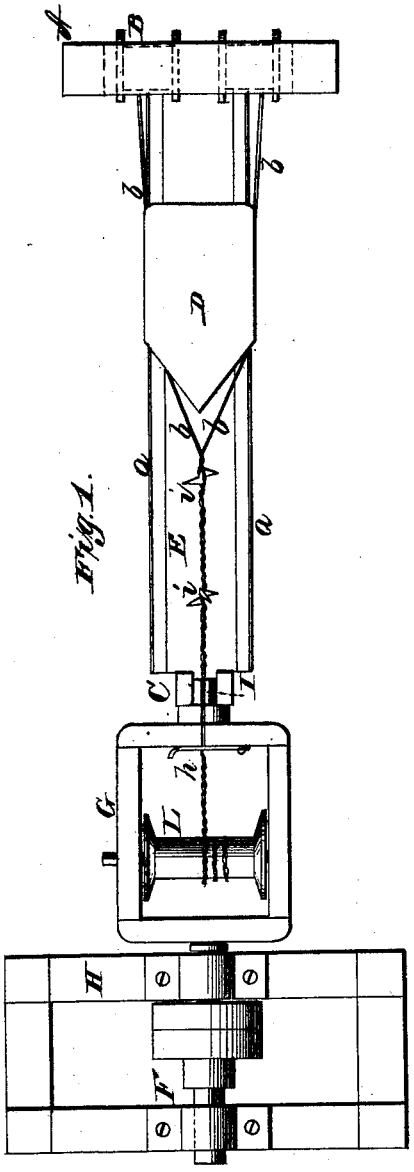
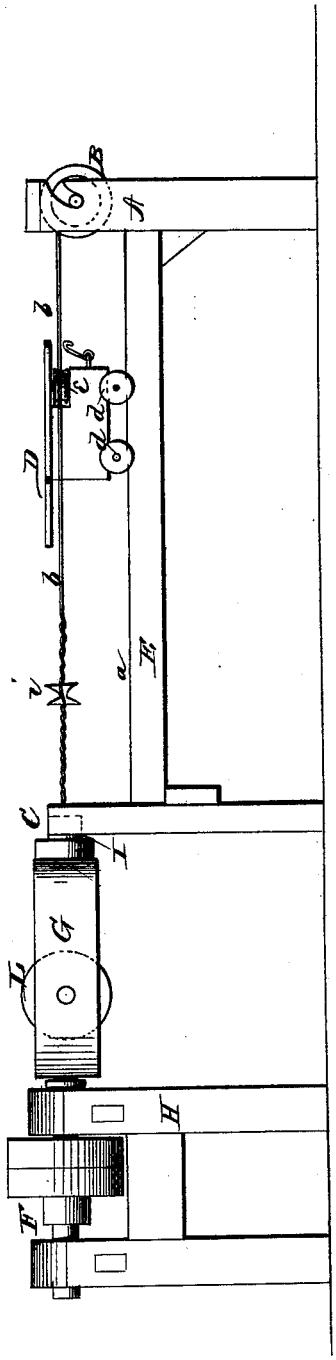


Fig. 2.



WITNESSES

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HIRAM B. SCUTT, OF JOLIET, ILLINOIS.

IMPROVEMENT IN MACHINES FOR MAKING BARBED ROPES FOR WIRE FENCES.

Specification forming part of Letters Patent No. **206,623**, dated July 30, 1878; application filed June 25, 1878.

To all whom it may concern:

Be it known that I, HIRAM B. SCUTT, of Joliet, in the county of Will, and in the State of Illinois, have invented certain new and useful Improvements in Machines for Making Barbed Ropes for Wire Fences; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a machine for twisting barbed fence-wires, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, and Fig. 2 a side elevation, of my machine.

A represents a vertical frame, in the upper portion of which are mounted two spools, B B, containing the wires *b b*, to be twisted together. These spools are so arranged in the frame that they can be easily removed when empty and others substituted.

A suitable distance from the frame A is a vertical post, C, and this post and frame form supports for two horizontal rails, *a a*, said rails being attached to, or formed on, the edges of a bar, E, as shown, said bar and rails forming a trough to receive the barbs which are to be twisted in between the wires.

D represents a carriage mounted upon wheels *d d*, arranged to move on the rails *a a*. This carriage is provided at its sides with horizontal rollers *e e*, which form guides for the wires *b b*.

H represents a frame-work, in suitable bearings upon which is placed a shaft, F, said shaft being provided with a fast and loose pulley, for the purpose of turning the shaft by means of a belt, and permitting it to be stopped, when desired, by running the belt off the fixed pulley onto the loose one.

On the end of the shaft F is secured a frame, G, provided at its forward end with a hollow trunnion, I, which rests in a semicircular bearing formed in the upper end of the post C. The trunnion I is on a line with the shaft F, and it is slotted longitudinally on one side into the central bore, said slot and bore passing through the end piece of the frame G.

In the frame G is mounted a roller, L, which is to be turned by means of a crank applied to one of its journals.

The wires *b b* from the spools B B are drawn forward and fastened to the roller L, when both wires are passed through the slot into the hollow trunnion I, and held from coming out of the same by means of a pivoted latch, *h*. The carriage D is pulled up near to the post C, between the wires *b b*, which are held in the guide-rollers *e e*. By now rotating the shaft F the frame G also rotates and the wires *b b* become twisted, and as they twist they force the carriage D gradually backward.

The operator, during the operation of twisting the wires, picks up barbs *i*, and inserts them at suitable intervals between the wires, and said barbs are thus twisted into and held in the rope.

The carriage D separates the wires, so that they will be twisted tightly and admit of inserting the barbs.

When the carriage has receded back to the frame A the frame G is stopped, the latch *h* raised, and the wire lifted out of the hollow trunnion, when the roller L is turned by hand, for winding up the twisted-wire ropes, and the twisting operation repeated.

The carriage D may be weighted more or less, according to the twist required in the wire, as the heavier the carriage is weighted the tighter the wires will be twisted before the carriage will move back.

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

1. In a machine for twisting wires for wire fences, a movable carriage for separating the wires, the same arranged to be moved backward by the twisting of the wires, substantially as herein set forth.

2. In a machine for twisting wires for wire fences, the carriage D, mounted upon wheels *d d*, and provided with guide-rollers *e*

e, in combination with the rails *a a*, said carriage being adapted to be moved backward by the wires *b b*, substantially as and for the purposes herein set forth.

3. The combination of the rotating frame G, provided with slotted hollow trunnion I, latch *h*, and roller L, with the wire-spools B B, rails *a a*, and carriage D, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 25th day of June, 1878.

HIRAM B. SCUTT.

Witnesses:
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FRANK GALT.