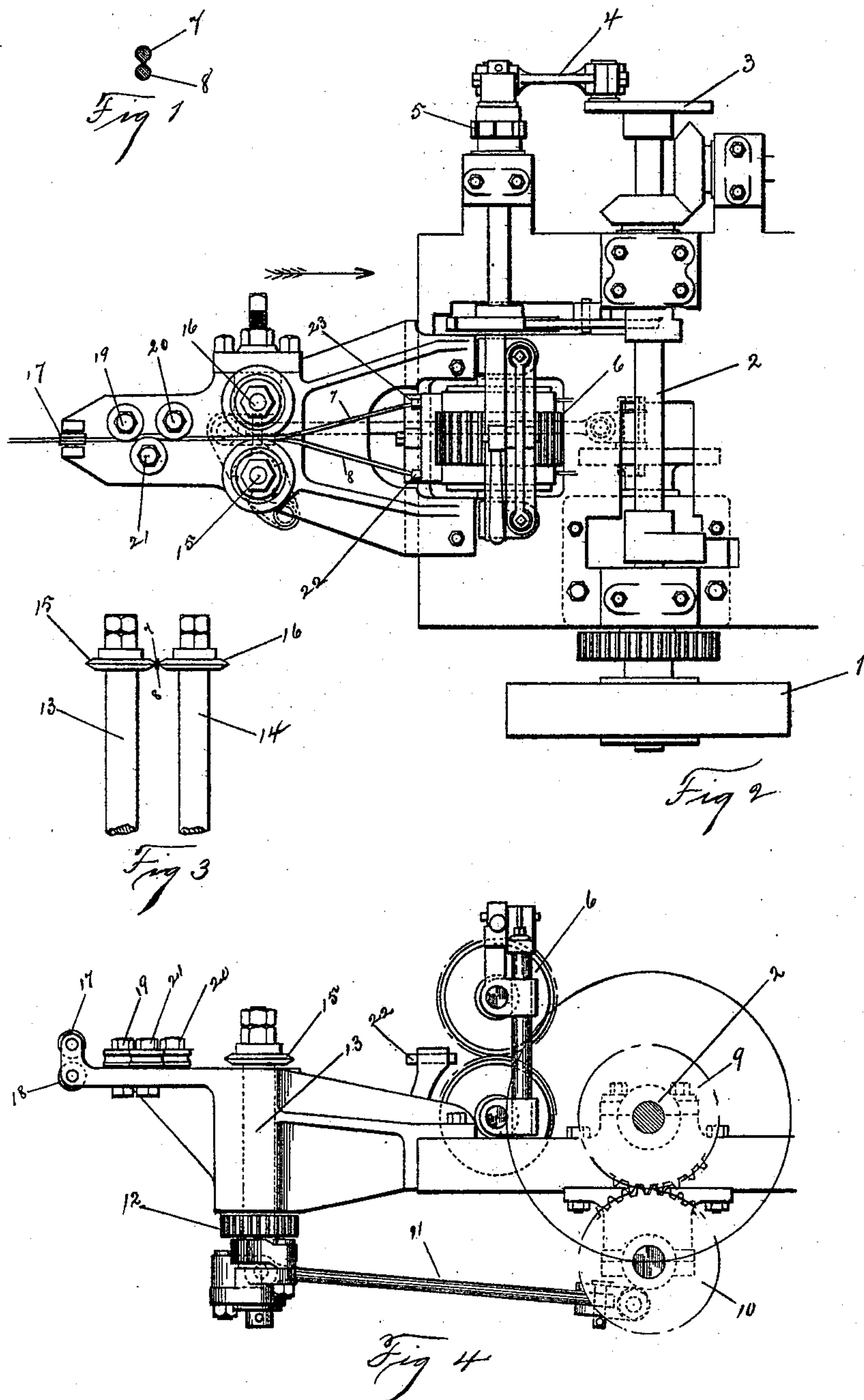


(No Model.)

F. H. DANIELS.
WIRE FENCE MACHINE.

No. 528,764.

Patented Nov. 6, 1894.



Witnesses:
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UNITED STATES PATENT OFFICE.

FRED H. DANIELS, OF WORCESTER, MASSACHUSETTS.

WIRE-FENCE MACHINE.

SPECIFICATION forming part of Letters Patent No. 528,764, dated November 6, 1894.

Application filed January 13, 1893. Serial No. 458,192. (No model.)

To all whom it may concern:

Be it known that I, FRED H. DANIELS, a citizen of the United States, residing at Worcester, in the county of Worcester and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Machinery for Making Wire Fencing, of which the following is a specification.

The object of my invention is to provide a machine capable of splitting a wire-rod into a plurality of members, and subsequently working said members into finished fencing.

My invention relates particularly to that style of wire fencing known as two-strand fencing, composed of two strands twisted together, to one or both of which strands a barb may be attached.

My machine is capable of making fencing from a rod of any shape which can be split into a plurality of members. In practice, I prefer to use a wire-rod composed of a series of two or more ribs connected by a thin web, a form of wire-rod which may conveniently be made.

In the drawings,—Figure 1 represents a sectional view of this form of rod as it comes from the rolling-mill. Fig. 2 is a plan view of the splitting-device, and a partial plan view of the fencing machine, showing only such parts as are peculiar to my improved construction. Fig. 3 is a front elevation of the splitting device showing, disengaged from their bearings, the spindles which operate the splitting disks, and a section of the rod in the process of being split. Fig. 4 is a side elevation showing the splitting device and mechanism connecting it with the main shaft of the machine, by which it is actuated.

1, Fig. 2, is the driving pulley. 2. is the main shaft to which is attached the plate 3, by means of which and the connecting arm 4, and the pawl and ratchet 5, motion is imparted to the feed-rolls 6, which act in the ordinary way upon the two strands 7 and 8, feeding them into the machine in the direction of the arrow.

By means of the gear-wheels 9 and 10, (Fig. 4,) attached to the shaft 2, the connecting arm 11 and gear-wheel 12, motion is imparted

through the spindles 13 and 14, to the cutting disks 15 and 16.

In the use of my improved machine, the rod may be brought direct from the rolling-mill and placed upon a reel, (not shown in the drawings,) at the rear of the fence machine. The rod is then passed between the friction rolls 17 and 18 between the straightening rolls 19, 20 and 21, and between the cutting disks 15 and 16, the edges of which are brought into contact with the rod in such a manner that it may be split into the members 7 and 8, which pass through the guides 22 and 23 between the feed-rolls and thence through the several operations common in the manufacture of wire fencing.

I do not confine myself to any particular form of rod, as any rod capable of being split into a plurality of members may be used in my improved machine; and I may place my splitting device between two fence machines, supplying both with the wire necessary for the finished cable, and it may be found feasible to supply with one rod a larger number of machines; nor, do I confine myself to any particular style of splitting device, or arrangement of the accompanying mechanism. I have illustrated in the drawings mechanism which I have found convenient and effective for the purpose.

The utility of my improved machine will be apparent to any one familiar with the art of making wire fencing, as it makes feasible the manufacture of fencing, composed of more than one strand, directly from the wire rod, as it leaves the rolling-mill, without the intermediate processes of drawing and annealing, heretofore usually necessary in the preparation of wire for this purpose.

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

1. In a wire fence machine, the combination of mechanism for separating a wire rod into a plurality of members, with mechanism for advancing said separated members through the machine to the fence-forming devices, and mechanism connecting and timing the same

whereby the separated members of a wire rod may be continuously worked into finished fencing.

5 2. In a wire fence machine, the combination of mechanism for separating a longitudinally ribbed rod into a plurality of members, with mechanism for advancing said separated members through the machine to the fence-forming devices, and mechanism con-

necting and timing the same, whereby the separated members of the wire rod may be continuously worked into finished fencing, substantially as shown and described.

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