

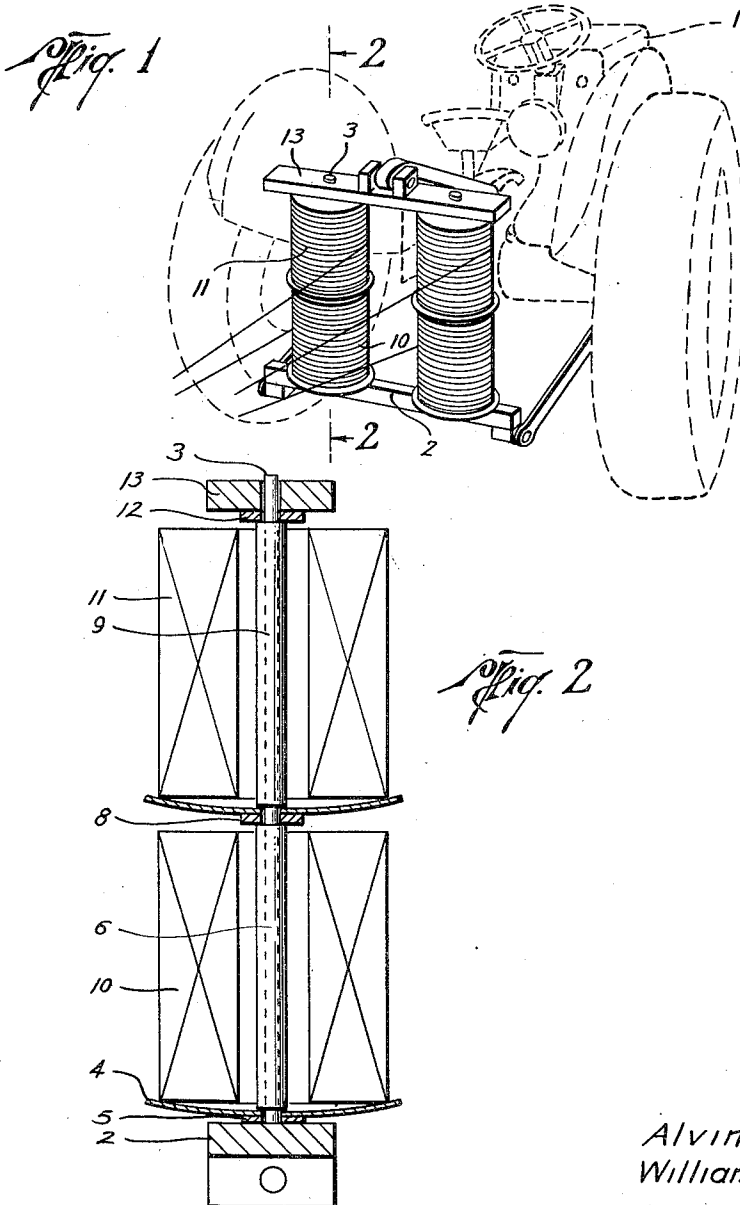
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WIRE DISPENSER

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WIRE DISPENSER

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4 Claims. (Cl. 242—90)

This invention relates to new and useful improvements in a wire dispenser.

It is an object of this invention to provide means for dispensing a plurality of wire strands simultaneously, as in dispensing wire to be strung in building fences.

In building a fence, using barbed wire, the most difficult part of the task is dispensing the wire. This usually requires two men just to carry the spool as the wire is played out, one strand at a time, along the proposed fence line. It is an object of this invention to provide a means of dispensing the wire so that a single man may build a fence without other help and in a minimum length of time.

It is another object of the invention to provide a means for dispensing a plurality of strands of barbed wire, simultaneously, that will provide its own braking medium to prevent excess or uneven distribution of the wire along the proposed fence line.

With the above and other objects in view, the invention has relation to certain novel features of construction and operation more particularly set out in the following specifications and illustrated in the accompanying drawings, wherein:

Figure 1 is a perspective view of the device mounted on a tractor, and

Figure 2 is a cross sectional elevational view of the spindled spools of wire, taken on the line 2—2 of Figure 1.

Referring now more particularly to the drawings, the numeral 1 designates a tractor, or any suitable vehicle, on which the spindle bar 2 may be mounted. A plurality of spindles, as the spindles 3, 3 are mounted upright on said spindle bar 2. A concave-convex disc as 4 is mounted on said spindle 3, a suitable washer, as 5, separating said disc 4 from said spindle bar 2. A freely rotatable axle 6, such as an ordinary steel pipe, of larger inside diameter than the outside diameter of the spindle 3, is mounted on the spindle 3 and the lower end of said axle 6 abuts against the inside concave face of the disc 4. A spool of wire, as 11, is mounted on the axle 6. A second disc, 7, may be mounted on the spindle 3, a washer, as 8, separating the disc 7 from the pipe 6. A second axle, as the pipe 9, is then mounted on the spindle 3 and a spool of wire, as 10, mounted on the axle 9. A washer 12 is mounted on the spindle 3 between the axle 9 and a suitable cover as 13. The cover 13 may be anchored in place in any suitable manner, such as by the coupling 14 of a Fordson tractor, the cover 13 having upstanding lugs 15, 15 designed to receive the coupling 14. The cover, however, is strictly optional, and need be employed only if desired.

The spools of wire are mounted on the respective spindles one upon the other, and in such manner that the wire is dispensed from opposite sides of the spindle, as shown in Figure 1, such as the arrangement where the wire from the lower spool is dispensed from the left side and from the upper spool it is dispensed from the right side. This causes the vertically aligned spools of wire

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to rotate in opposite directions, and the friction of the rotating spools and their axles against each other will serve as a brake when the vehicle is stopped, thus avoiding excess delivery of wire during the distribution thereof.

In the form shown in Figure 1, four spools of wire are shown. Of course, any number desired may be mounted on the bar 2, so long as the arrangement is maintained whereby one spool is mounted above another so that the rotation of the spools brakes the rotation of the adjoining spools. Of course, any type of carriage may be employed, such as an independent wheeled cart drawn by hand. The fence builder in the form shown, drives the vehicle along the right of way, and as he moves along, the wire will be played out from the spools. As he stops, the spools being frictionally engaged, will also stop. Then the fence builder may stretch and staple the respective strands of wire upon the posts in the usual manner.

While the foregoing is considered a preferred form of the invention, it is by way of illustration only, the broad principle of the invention being defined by the appended claims.

What we claim is:

1. In a wire dispenser for simultaneously stringing a multi-strand wire fence, a conveyance, a spindle bar mounted on said conveyance, a spindle on said spindle bar, freely rotatable concave convex discs mounted on said spindle, axles freely and co-axially mounted on said spindle and in friction contact with said discs, spools of wire mounted on said axles, and bearing against said discs, the lowermost disc bearing against said bar and the upper disc bearing against the spool beneath it, the wound wire unwinding from said spools from opposing directions as the conveyance moves forwardly and the counter-rotation of said spools braking the rotation as the forward movement of the conveyance stops.

2. In a wire dispenser, a spindle bar, a spindle mounted vertically on said bar, a rotatable lower disc coaxially mounted on said spindle, a rotatable lower axle coaxially mounted on said spindle adapted to receive a spool of wire, a washer mounted on said spindle abutting the upper end of said lower axle, an upper disc abutting the upper face of said washer and an upper rotatable axle coaxially mounted on said spindle and abutting said upper disc and adapted to receive a spool of wire, said axles being rotatable in opposing directions and each axle braking the movement of the opposing axle through friction between the lower axle and upper disc.

3. In a wire dispensing device for simultaneously stringing a multi-strand wire fence, a wheeled vehicle, a horizontal spindle bar mounted on said vehicle, a vertical spindle mounted on said bar, coaxially mounted rotatable axles on said spindle, and coaxially mounted and freely rotatable spool receiving discs on said spindle, a rotatable axle separating means on said spindle, a spool on each of said discs in vertical alignment, the lowermost disc in frictional contact with the bar and the upper disc in frictional contact with the axle separating means beneath it, the said spools being positioned on the discs to dispense wire from opposite sides so that the abutting spools will be rotated in opposing directions, and the friction between the abutting spools and discs braking the free rotation of the spools.

4. In a barbed wire dispenser for simultaneously stringing a multi-strand wire fence, a base member, a vertical spindle fixedly located on said member, spool supporting members rotatably mounted on said spindle, spools of wire mounted on each of said spool supporting members in vertical alignment, the lowermost supporting member being in friction contact with the base and the upper supporting member being in friction contact with

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the spool beneath it, said spools rotating in opposite directions as the wire is dispensed therefrom and means for maintaining a pressure on said spools to maintain friction therebetween as the spools rotate.

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