July 31, 1951 E. G. TRUNKHILL 2,562,650

PORTABLE DISPENSING REEL FOR ROLLED WIRE

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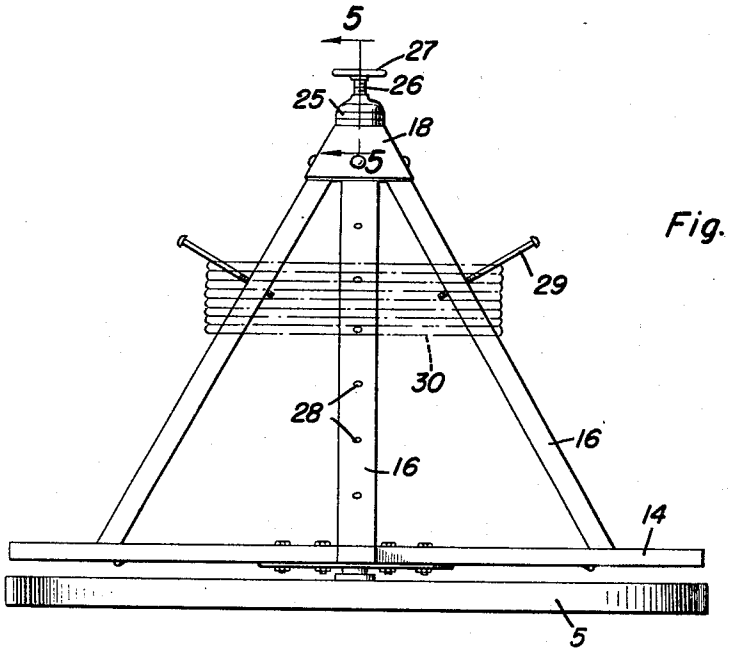


Fig. 1

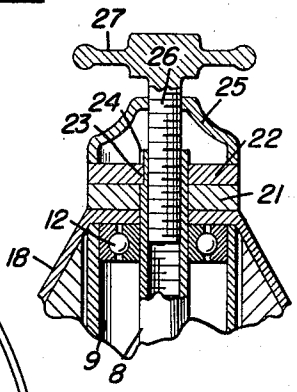


Fig. 5

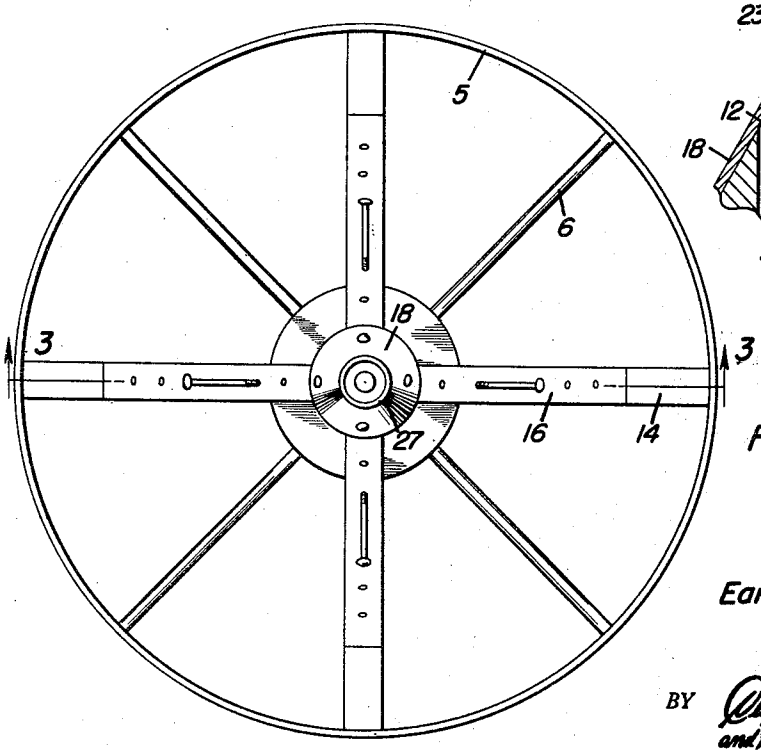


Fig. 2

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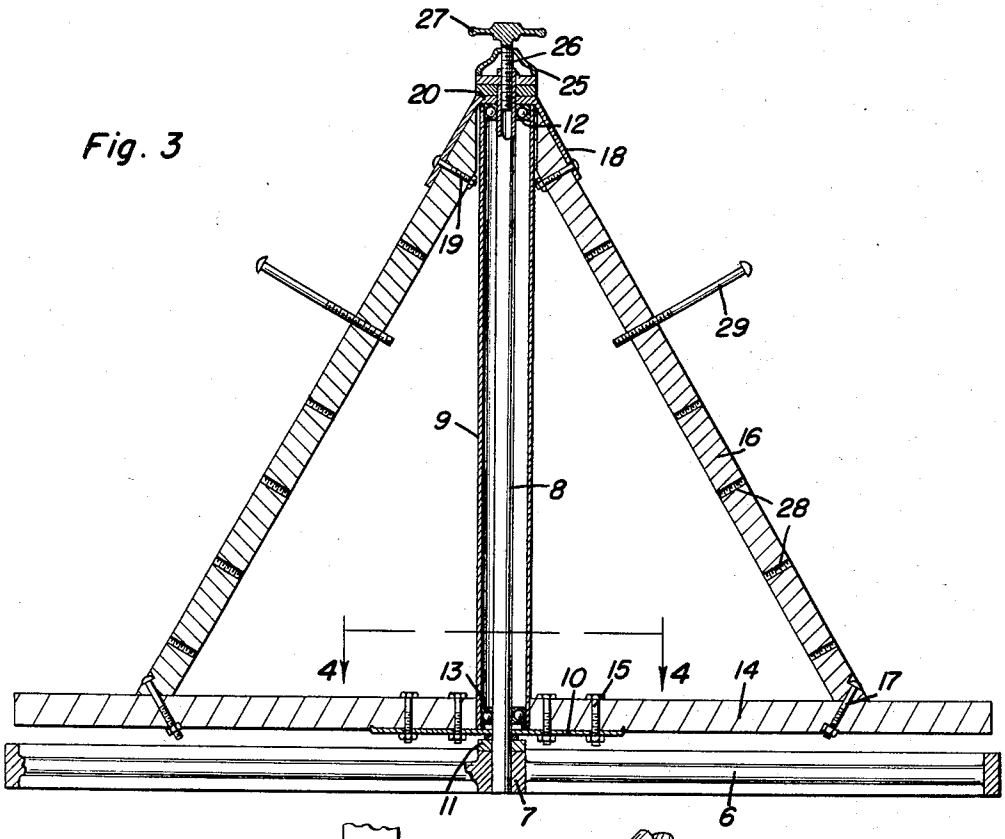
Attorneys

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PORTABLE DISPENSING REEL FOR ROLLED WIRE

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Fig. 3



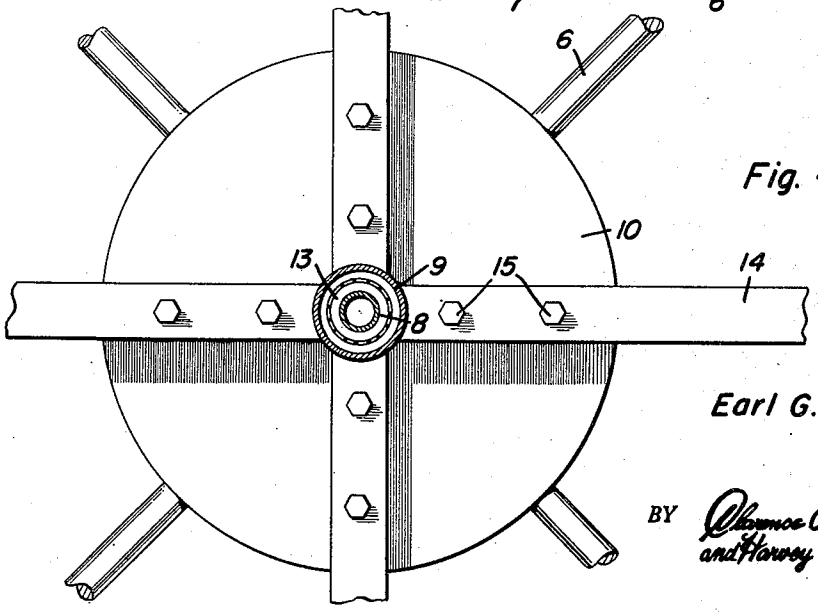


Fig. 4

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2,562,650

PORTABLE DISPENSING REEL FOR ROLLED WIRE

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Application April 26, 1950, Serial No. 158,174

3 Claims. (Cl. 242—129)

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The present invention relates to new and useful improvements in reels and more particularly to a portable reel for holding rolled wire for dispensing or unrolling desired lengths of wire therefrom.

An important object of the invention is to provide a reel of this character including a vertical spindle supported on a base and in which the reel tapers toward its upper end for easily and quickly placing rolls of wire of various sizes thereon and providing means for holding the roll on the reel and insuring unwinding of the convolutions of the roll in regular order to prevent entanglement of the wire.

A further object of the invention is to provide a novel reel construction wherein the spindle is formed with a flange at its lower end to which the inner ends of radial arms are secured and the arms form supports for upwardly converging legs to provide a tapered upper end for the hub of the reel.

A still further object is to provide a base for the reel formed of a wheel which rests on its side when the reel is in dispensing position and which serves to support and roll the reel from place to place.

A still further object is to provide a device of this character of simple and practical construction, which is efficient and reliable in operation, strong and durable, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a side elevational view;

Figure 2 is a top plan view;

Figure 3 is a vertical sectional view taken on a line 3—3 of Figure 2;

Figure 4 is an enlarged fragmentary sectional view taken on a line 4—4 of Figure 3; and,

Figure 5 is an enlarged fragmentary vertical sectional view of the friction adjusting cap at the top of the reel.

Referring now to the drawings in detail wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention the numeral 5 designates a base of annular construction and preferably in the form of a wheel having spokes 6 and a hub 7. The wheel is placed on its side to form the base 5 and a standard preferably of tubular construction is fixed at its

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lower end in hub 7 and on which a tubular vertical spindle 9 is rotatable by means of a flange 10 at the lower end of the spindle resting on suitable washers 11 placed on top of hub 7 and under flange 10. Upper and lower ball bearing assemblies 12 and 13 are placed internally at the upper and lower ends of spindle 9.

A plurality of horizontal arms 14 are secured at their inner ends on flange 10 by a bolt and nut 15 with the arms projecting radially from the spindle and a plurality of legs 16 are secured at their lower ends to the outer portion of arms 14 by bolts and nuts 17 and with the upper end of the legs converging to form an upwardly tapering reel construction. The upper ends of legs 16 are secured to the under side of a frusto-conical cap 18 by bolts and nuts 19.

The cap 18 is formed with a flat top 20 which rests on the upper end of spindle 9 and a self-lubricating washer 21 is placed on the flat top 20 of cap 18 with a metal washer 22 on top of washer 21 and formed with a locking lug 23 engaged in a slot 24 in the upper end of standard 8 to lock washer 22 to the standard.

A substantially dome-shaped cap plate 25 is placed on washer 22 and a screw 26 is threaded in the upper end of standard 8 with a wheel 27 at its upper end of the screw bearing on top of cap plate 25.

Arms 14 are formed with vertically spaced apart threaded openings 28 in which pegs 29 are selectively threaded above the top of a roll of wire 30 placed on the reel to prevent entanglement of the wire as the same is unrolled.

In the operation of the device the base or wheel 5 is rolled into a desired location by holding the tapered end of the reel horizontally and the base 5 then placed on its side to support the reel upright.

A roll of wire 30 is placed on the upper tapered end of the reel and locked thereon by pegs 29 which function as an upper flange for the reel, and the spindle 9 of the reel may freely rotate while the wire is unrolled or the spindle may be tightened to regulate its freedom of rotation by tightening screw 26 causing cap plate 25 to force upper stationary washer 22 downwardly on top of washer 21 and flat top 20 of cap 18.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even

though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. A portable dispensing device for rolls of wire comprising a base, a standard rising from the base, and a reel rotatably mounted on the standard and including horizontal arms at the lower end of the reel, upwardly inclined legs rising from the horizontal arms and converging at the upper end of the reel, a hollow conical cap for the upper ends of said legs in which said upper ends are attached, and screw feed means for exerting variable pressure downwardly against said cap to variably restrict rotation of said reel.

2. A portable dispensing device for rolls of wire comprising a base, a standard rising from the base, a spindle rotatably mounted on the standard, radial arms projecting horizontally at the lower end of the spindle, legs supported at their lower ends on the arms and converging at the top of the spindle, pegs secured in vertically adjusted position on the legs and overlying a roll of wire placed on the reel, and a conical cap surmounting said spindle and rotatable on said standard with the upper ends of said legs fixed therein.

3. A portable dispensing device for rolls of wire comprising a wheel resting on its side to form a base, a standard rising from the hub of the wheel, a spindle rotatable on the standard, a horizontal flange at the lower end of the spindle, radial arms attached to said flange, legs supported at their lower ends on said arms and converging at their upper ends to a tapered reel construction, a conical cap surmounting said spindle and rotatable on said standard with the upper ends of said legs fixed therein, and screw feed means on the upper end of said standard for exerting variable pressure against said cap to variably restrict rotation of said reel.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,768,030	Burzi	June 24, 1930
1,929,469	Ball	Oct. 10, 1933
2,070,934	Thompson	Feb. 16, 1937
2,112,721	Vaughan	Mar. 29, 1938
2,187,580	Young et al.	Jan. 16, 1940

FOREIGN PATENTS

Number	Country	Date
174,959	Great Britain	Jan. 26, 1922