

Jan. 30, 1923.

F. YURCICH.
WIRE REEL,
FILED FEB. 25, 1922.

1,443,450.

2 SHEETS—SHEET 1.

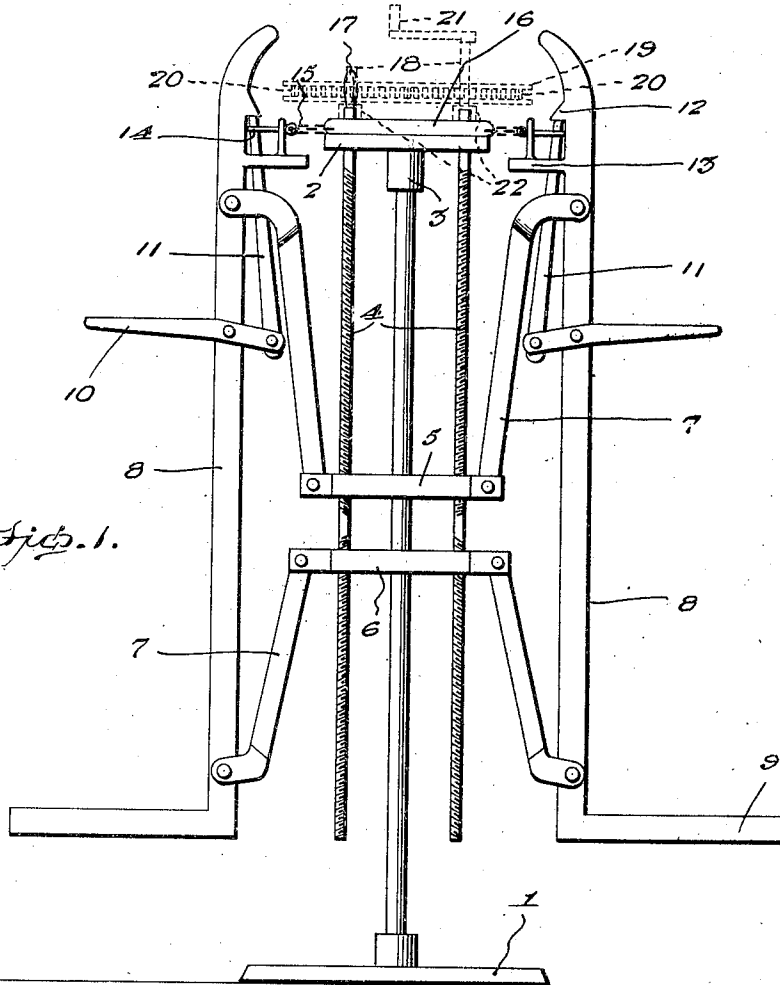
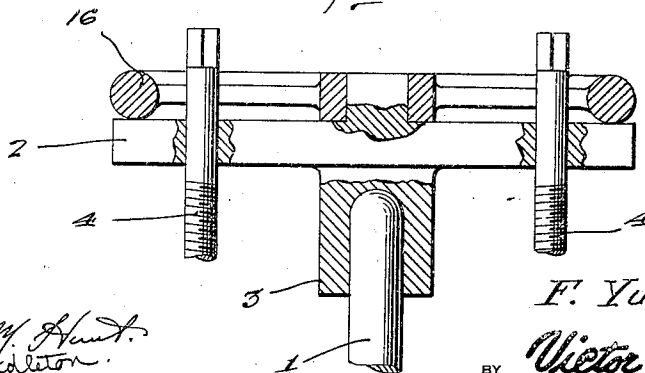


Fig. 1.

Fig. 3.



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2 SHEETS SHEET 2.

Fig. 2.

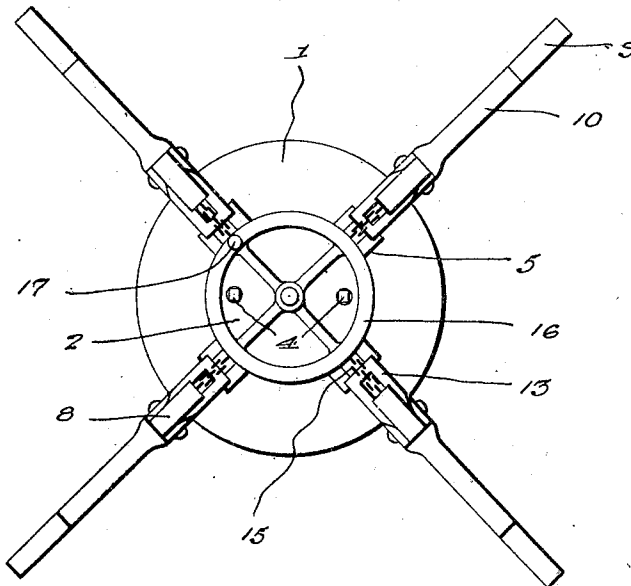


Fig. 4.

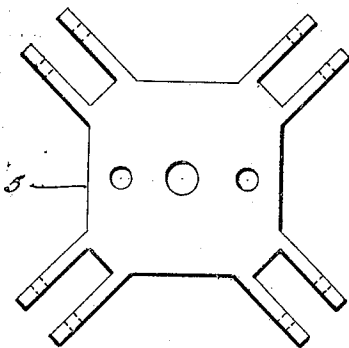
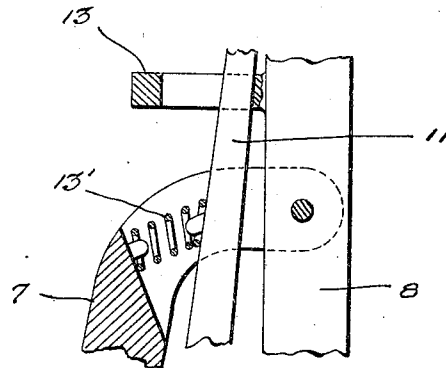


Fig. 5.



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UNITED STATES PATENT OFFICE.

FRED YURCICH, OF FARRELL, PENNSYLVANIA.

WIRE REEL.

Application filed February 25, 1922. Serial No. 539,165.

To all whom it may concern:

Be it known that I, FRED YURCICH, a citizen of the United States, residing at Farrell, in the county of Mercer and State of Pennsylvania, have invented new and useful Improvements in Wire Reels, of which the following is a specification.

This invention relates to a wire reel, the general object of the invention being to provide means for supporting a bundle of wire at the top of the reel with means for permitting the bundle to drop to the lower part of the reel when desired.

Another object of the invention is to provide means for expanding or contracting the reel to suit different sizes of bundles.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a side view of the device.

Figure 2 is a plan view.

The remaining figures are detail views.

In these views 1 indicates a stand which consists of a base and rod, as shown. A plate 2 is rotatably mounted on the top of the stand by means of the socket 3 which is connected with the center of the plate and receives the upper end of the rod. This plate carries a pair of screw shafts 4 which are each provided with left and right hand threads, as shown. A plate 5 has screw threaded holes therein engaging the upper parts of the shafts 4 and a plate 6 has screw threaded holes therein engaging the lower parts of said shafts. Thus by turning the shafts the plates will be moved towards each other or away from each other. Each plate has pivoted thereto a number of arms 7, each arm having a curved and forked outer end which is pivoted to the standards 8. The arms of the upper plate extend upwardly and those of the other plate downwardly and an arm of the upper plate and an arm of the lower plate are connected to each standard so that when the plates are moved the standards will be moved bodily

inwardly or outwardly to decrease or increase the diameter of the reel. The lower ends of the standards are bent at right angles to provide the lower supporting arms 9 and arms 10 are pivoted intermediate the ends of the standards for supporting the bundle at the upper end of the reel. The inner ends of these arms 10 project beyond the standards and are pivoted to the rods 11 which pass through the forked ends of the upper arms 7 and are normally held in engagement with projections 12 on the upper curved ends of the standards by springs 13 which are carried by the arms 7. This arrangement of parts will hold the arms 10 in horizontal and bundle supporting position. Brackets 13 are connected with the standards, each bracket being slotted to receive the upper parts of the rods 11. Hooks 14 engage the rods 11 and these hooks are connected by the chains 15 with a ring 16 rotatably mounted on plate 2 and provided with a handle 17 by which it can be rotated. By rotating this plate the slack in the chains will be taken up so as to cause the hooks to pull the rods out of engagement with the projections 12, thus permitting the arms 10 to swing downwardly and permit the bundle thereon to drop upon the lower arms 9.

This device can be used for holding a bundle of wire upon its upper part while another bundle is being wound from its lower part. When the lower bundle has been removed the upper bundle can be released so that it will drop upon the arms 9 and then it can be unwound and a new bundle placed upon the upper part.

The plates 5 and 6 are provided with centrally arranged holes through which the standard passes and it will be seen that the whole reel rotates upon the standard. By revolving the screw shafts 4 in any suitable manner the reel can be increased or decreased in diameter to suit different diameters of bundles.

The means for rotating shafts 4 shown in the drawings consists of a pair of shafts 18 mounted in a frame 19 and geared together by the gears 20. One shaft is provided with a handle 21 and the lower end of each shaft is provided with a socket 22 for engaging the squared upper end of each shaft 4. Thus by placing the frame on the upper part of the device with the sockets engaging the squared ends of the shafts 4

and turning the handle 21 said shafts 4 will be rotated to expand or contract the reel.

5 It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several 10 parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. A reel of the class described comprising a supporting stand, a reel frame rotatably mounted thereon, lower supporting 15 arms connected with the frame, upper arms pivotally connected therewith, rods pivotally connected with the inner ends of the movable arms, projections on the frame with which the rods engage and manually 20 operated means for moving the rods out of engagement with the projections.

2. A reel of the class described comprising a supporting stand, a reel frame rotatably mounted thereon, lower supporting 25 arms connected with the frame, upper arms pivotally connected therewith, rods pivot-

ally connected with the inner ends of the movable arms, projections on the frame, springs for normally holding the upper ends 30 of the rods in engagement with said projections, a rotatable member on the frame and chains connecting the same with the rods so that when the member is rotated the rods will be moved out of engagement 35 with the projections.

3. A reel of the class described comprising a standard, a plate rotatably mounted thereon, screw shafts carried by the plate, 40 each shaft having left and right hand screw threads, a pair of plates engaging the threads of said shafts, arms pivoted to the plates, standards pivoted to the arms, lower supporting arms on the standards, upper 45 arms pivotally connected to the standards, a rod pivotally connected with the inner end of each upper arm, projections on the upper ends of the standards, springs for holding the rods in engagement with said projections, a manually operated member on the 50 plate and flexible members connecting the same with the rods.

In testimony whereof I affix my signature.
FRED YURCICH.