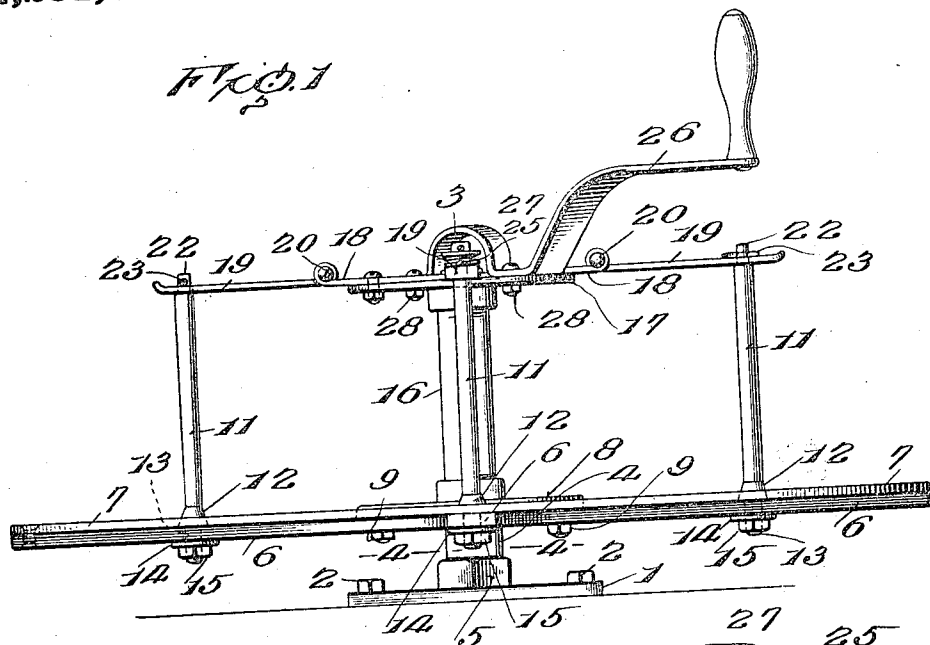
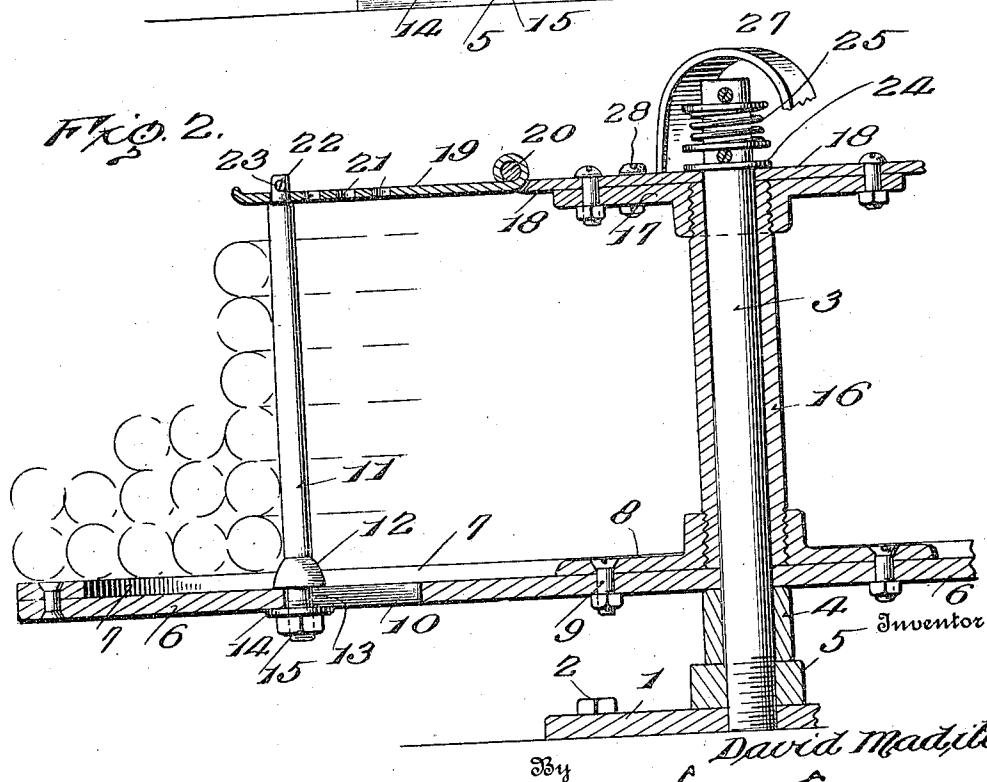


REEL.

Patented Oct. 15, 1918.
2 SHEETS—SHEET 1.

1,281,802.



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REEL.

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2 SHEETS—SHEET 2.

Fig. 3.

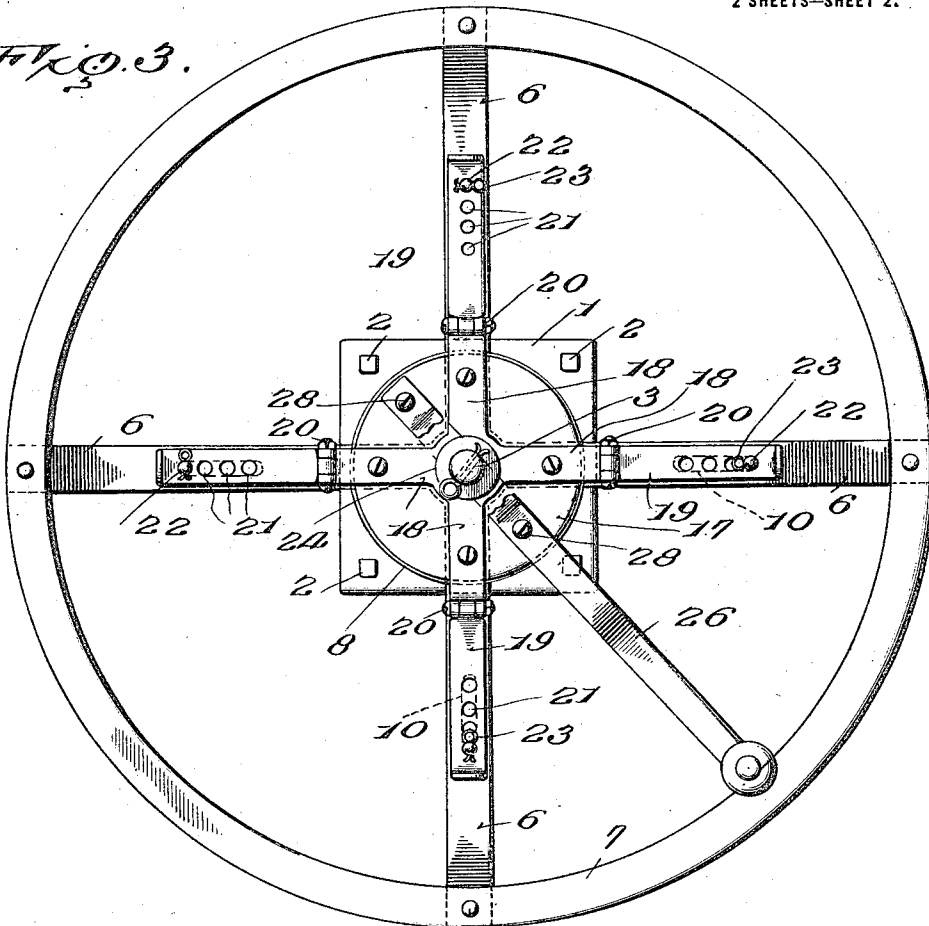
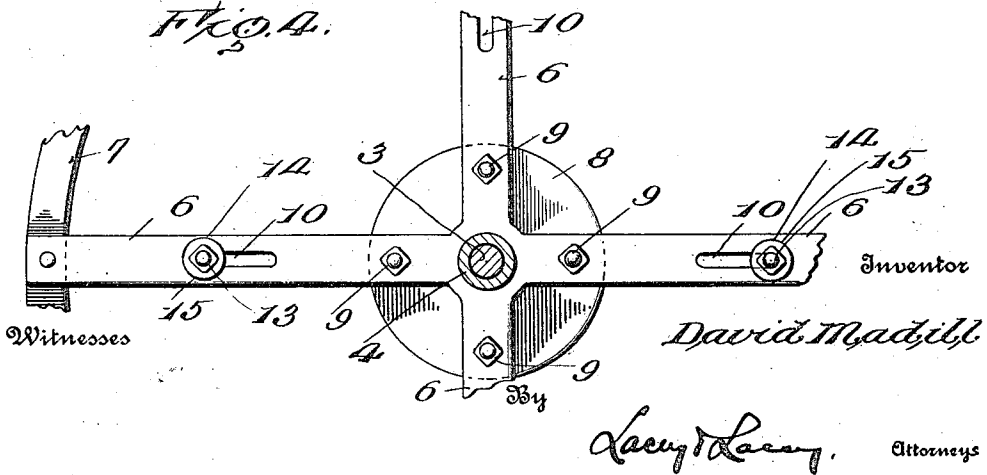


Fig. 4.



UNITED STATES PATENT OFFICE.

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REEL.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DAVID MADILL, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake and State of Utah, have invented certain new and useful Improvements in Reels, of which the following is a specification.

This invention relates to improvements in reels and has special reference to reels for supporting coils of wire which are to be strung upon poles or in conduits or along fences. The object of the invention is to provide a reel which will support a coil of wire in such a manner that it may be readily drawn off for use and will be held against collapse, a secondary object of the invention being to provide means whereby the reel may be easily and quickly adjusted to the internal diameter of the coil of wire.

The invention is illustrated in the accompanying drawings in which—

Figure 1 is an elevation of a reel in the position occupied when in use.

Fig. 2 is an enlarged vertical section of a portion of the reel with the position of the coil of wire indicated thereon.

Fig. 3 is a plan view of the reel.

Fig. 4 is a detail section on the line 4—4 of Fig. 1, looking upward as indicated by the arrow.

In carrying out my invention, I employ a base 1 which may be of any preferred form and dimensions and is provided with suitable openings through which securing bolts or spikes 2 may be driven into any fixed support. Secured centrally in the base and rising therefrom is a post 3 around the lower portion of which a collar 4 is fitted, said collar rising upon a central enlargement 5 of the base and serving as a support for the lower member of the reel. The lower member of the reel comprises a plurality of radial arms 6 which have a ring or annulus 7 secured to their outer ends and are connected at their inner ends by a hub plate or circular disk 8 secured thereto by bolts 9 as shown and will be readily understood. The arms 6 are constructed each with a longitudinal slot 10 which receives the lower end of a reel pin 11, the said pin being provided above its lower extremity with an annular shoulder or stop 12 adapted to bear upon the upper surface of the supporting arm 6 and the lower extremity of the pin being threaded, as shown at 13, to receive a washer 14 and nut 15 whereby the pin may

be readily clamped to the arm. The hub 8 receives the lower end of a sleeve 16 which is threaded into the hub and fits around the post 3 so that it may revolve readily thereabout but will be prevented from vertical oscillation. The upper end of the sleeve is threaded into an upper hub 17 upon which are secured a plurality of upper radial arms 18 which are disposed vertically over the lower arms 6 but are shorter than the latter. Keepers 19 are hinged to the outer ends of the several arms 18, as shown at 20, and are of the same width and thickness as the said arms, the outer or free extremities of the keepers extending to a point beyond the vertical plane of the outer end of the respectively subjacent slots 10 as shown in Fig. 2. In each keeper 19 is a longitudinal series of openings 21, in any one of which the tenon 22 at the upper end of a reel pin 11 may be received and a cotter pin or similar device 23 is inserted through the said tenon above the keeper so as to prevent accidental release of the keeper. A washer 24 is preferably provided upon the upper side of the reel at the inner ends of the arms 18 and a fastening device 25 is inserted through the upper end of the post 3 above said washer so as to prevent the reel rising when in use. A handle 26 is provided and is secured to the upper hub 17 so that the reel may be used, if desired, for coiling wire but it will be understood that this handle is not necessary when uncoiling wire and may be removed. To secure the handle firmly to the hub 17 so that it will not tend to merely pivot about its fastening, I provide an arched portion 27 which spans the upper extremity of the post 3, and through the handle member at the opposite sides of the said arch, I form openings to receive securing bolts 28 which also pass through the hub.

When it is desired to use the device, it is secured to some fixed support in the position shown in Fig. 1. The several keepers 19 are then raised and the reel pins 11 shifted to the inner ends of the several slots 10 after which the coil of wire is slipped down over the pins so as to rest upon the annulus 7 and be supported by the same and by the outer portions of the arms 6. The pins 11 are then shifted outwardly so as to engage against the inner circumferential surface of the coil of wire and the nuts 15 turned home so as to secure the pins in the adjusted position. The keepers 19 are then swung

downwardly so that one of the openings 21 in each keeper will engage over the tenon at the upper end of the adjacent pin to aid in holding the pin in its set position and prevent it bending inwardly under the strain imposed thereon. It will be understood that as the length of wire is drawn off and used, the reel will be rotated about the post 3 and as the coil is supported exteriorly to the reel pins and the upper members of the reel, there is no obstruction offered to the ready passage of the wire from the reel. If it be desired to coil new wire or recoil an unused length of wire, the handle 26 is grasped and the proper rotary motion is imparted to the reel through the same as will be readily understood.

My device is exceedingly simple in its construction and the arrangement of its parts, may be quickly adjusted to the inner diameter of the coil, may be easily manipulated, and will be found highly efficient when in use.

Having thus described the invention, what I claim as new is:

1. A reel comprising upper and lower supporting arms, a connection between the upper and lower arms, pins adjustably secured upon the lower arms and rising therefrom, and keepers carried by the ends of the upper arms to engage and brace the pins.

2. A reel comprising a plurality of lower supporting arms, a plurality of upper sup-

porting arms, a connection between the upper and lower arms, pins adjustably secured to and rising from the lower arms, and keepers carried by the upper arms and each provided with a plurality of openings in any one of which the respectively adjacent pins may be engaged.

3. A reel comprising a plurality of lower supporting arms, a plurality of upper supporting arms, a connection between the upper and lower arms, whereby they are secured in fixed spaced relation, pins secured adjustably to the lower arms and rising therefrom, and keepers hinged respectively to the outer ends of the several upper arms and each provided with a longitudinal series of openings in any one of which the upper end of the respectively adjacent pin may be engaged.

4. A reel comprising a plurality of lower supporting arms, an annulus secured to the outer ends of said arms, pins rising from said arms and spaced inwardly from said annulus, a plurality of upper supporting arms arranged respectively over the lower supporting arms and terminating short of the pins on said arms, a connection between the upper arms and the lower arms, and means carried by the upper arms to engage the upper ends of the pins.

In testimony whereof I affix my signature.

DAVID MADILL. [L. S.]