Sept. 11, 1928.

1,684,037

E. E. LEEDY

WIRE REEL

Filed Feb. 25, 1927

2 Sheets-Sheet 1

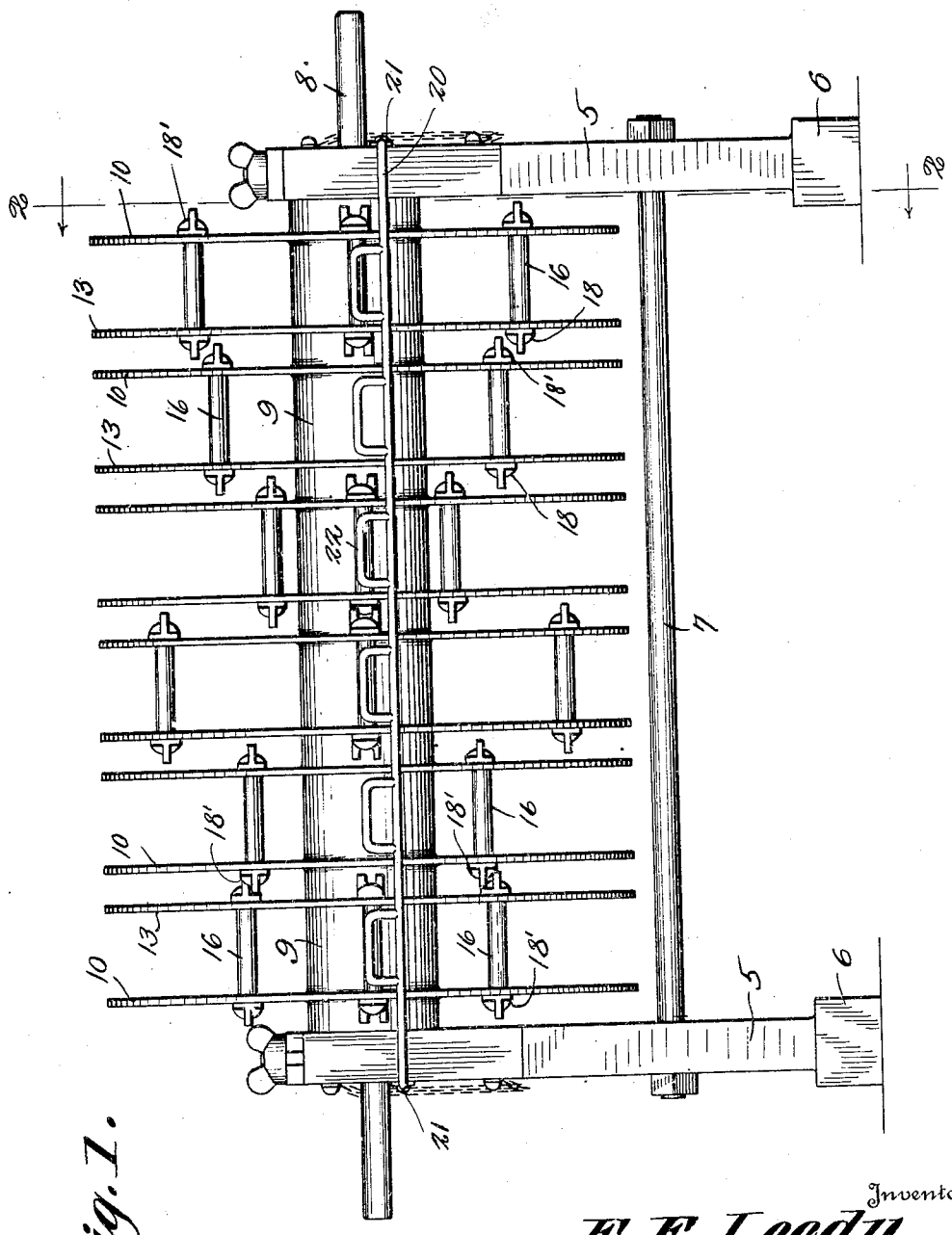


Fig. 1.

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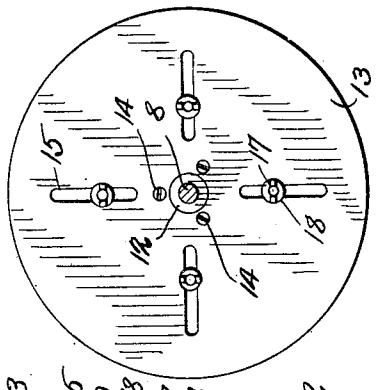


Fig. 4.

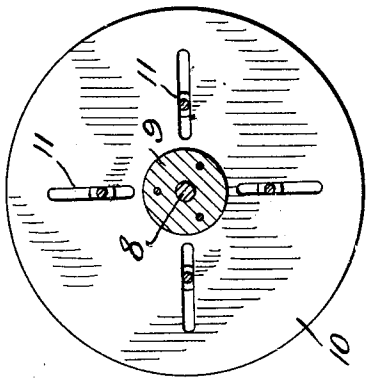


Fig. 5.

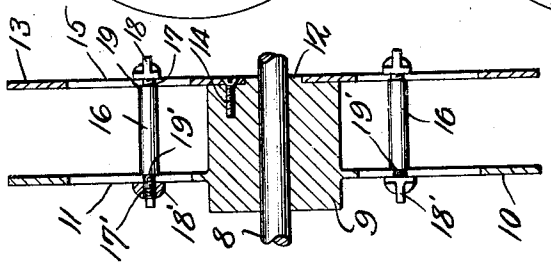


Fig. 3.

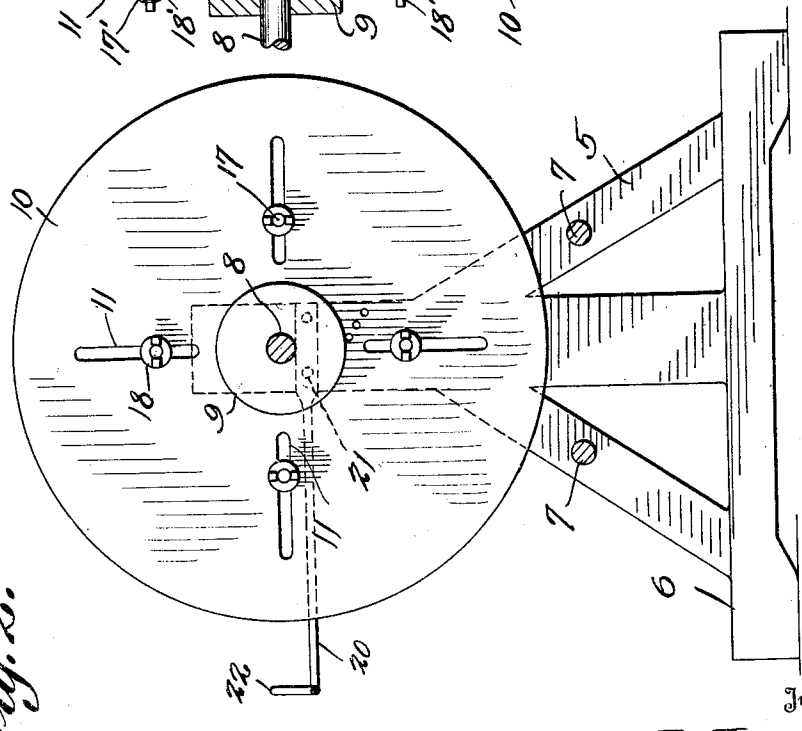


Fig. 2.

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Patented Sept. 11, 1928. 1,684,037

UNITED STATES PATENT OFFICE.

ELMER E. LEEDY, OF NEWARK, OHIO.

WIRE REEL.

Application filed February 25, 1927. Serial No. 170,940.

This invention relates to reels, and more particularly reels designed for supporting wire in such a way that the wire will not become tangled or twisted in the handling or transporting from place to place.

An important object of the invention is to provide reels and a reel support, the reels embodying lateral separable members and connecting members for connecting the lateral members, the connecting members being adjustable and so constructed that they will provide a support for the wire while it is being unwound from the coil and pulled through a conduit.

Another important object of the invention is to provide means for connecting the lateral separable members in such a way that one of the lateral separable members may be removed from the hub without the necessity of removing the connecting member, in order that a coil of wire may be positioned thereon.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawings:

Figure 1 is an elevational view of a device constructed in accordance with the invention.

Figure 2 is a sectional view taken on line 2—2 of Figure 1.

Figure 3 is a vertical sectional view through one of the reels.

Figure 4 is an elevational view of one of the lateral members.

Figure 5 is a sectional view through the hub and connecting members of the adjacent lateral member.

Referring to the drawings in detail, the device includes a support embodying end members 5 which have bases 6 connected by means of rods 7.

The reference character 8 indicates the supporting shaft that supports the reels that carry the wire, the shaft being removably held in the end members 5 in a manner as shown and described in my patent granted January 10, 1922.

This shaft is of a length so that a large number of reels may be supported thereon, the number of reels however being governed by the use to which the device is to be put.

Each of these reels includes a hub 9 and a lateral disk-like member 10 formed integral therewith, the disk-like member being provided with elongated openings 11 radiating from the hub. Each hub is cut away to provide a circular extension 12 to fit within a central opening formed in the cooperating disk-like member 13, there being provided openings in the disk-like member 13 for the reception of the screws 14 that also pass into threaded openings in the hub 9 to removably secure the disk-like member 13 to the hub 9.

The disk-like members 13 are each provided with elongated openings 15 radiating from the center thereof, the openings 15 being designed to align with the openings 11 of the member 10, to receive the threaded ends 17 of the pins 16, which threaded ends receive the winged nuts 18 that cooperate with the shoulders 19 formed at the bases of the reduced end portions 17, to clamp the disk-like member 13 therebetween. The opposite ends of the pins 16 are also reduced at 17′ and threaded and positioned in the elongated openings 11 and held in such position by means of the winged nuts 18′ that coact with the shoulders 19′ of the pins.

The reference character 20 designates a guide which is in the form of a rod having rearwardly extended ends secured to the end members 5, at 21. Eyes are formed by the substantially short rods 22 which are secured to the rod at points directly in front of the reels so that the wires from the reels may be passed therethrough, with the result that the wires will be unreeled evenly, regardless of the direction of pull on the wires.

From the foregoing it will be seen that due to the construction shown and described, the pins 16 may be moved towards or away from the hub 9, adapting the reel for use in connection with rolls of wire of various sizes and diameters.

It will further be seen that due to this construction, the removable disks may be removed and coils of wire to be unreeled slipped onto the pins. The removable disks may now be replaced and the coils securely held in position.

I claim:

In a device of the character described, end members, a supporting shaft extending through the end members, a plurality of reels mounted on the shaft, each reel including a

hub section, a disk-like member formed integral adjacent to one end of the hub, the opposite end of the hub being reduced defining a circular extension, a removable disk positioned over the extension, means extending through the last mentioned disk and into the hub for securing the last mentioned disk to the hub, said disks having elongated openings, pins having reduced threaded end portions fitted in the elongated openings and adjustable throughout the lengths of the openings, said pins providing supports for wire wound on the reels, and winged nuts on the threaded extensions of the pins for securing the pins to the disks at predetermined points throughout the lengths of the elongated openings.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

ELMER E. LEEDY.