

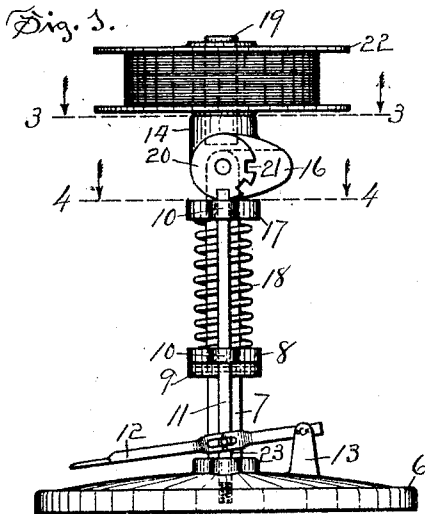
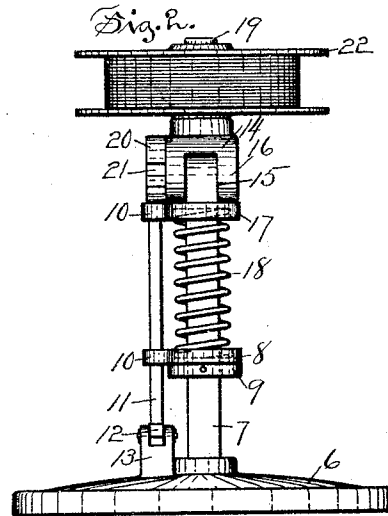
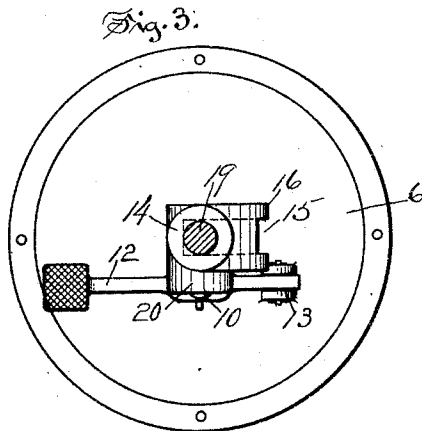
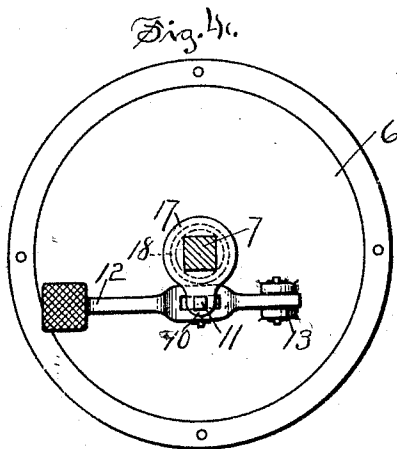
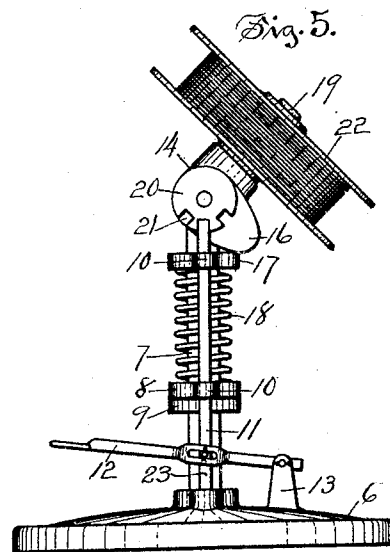
May 19, 1925.

1,538,477

I. EPSTEIN

WIRE REEL SUPPORT

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UNITED STATES PATENT OFFICE.

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WIRE-REEL SUPPORT.

Application filed October 2, 1924. Serial No. 741,211.

To all whom it may concern:

Be it known that I, IRVING EPSTEIN, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented new and Improved Wire-Reel Supports, of which the following is a specification.

My invention relates to the class of devices that are employed for supporting reeled or wound masses of wire, usually for delivery to a machine for operating upon said wire, and an object of my invention, among others, is the production of a wire reel support that shall be simple and extremely durable in construction and particularly efficient in its method of operation.

A form of support embodying my invention and in the construction and use of which the objects herein set out, as well as others, may be attained, is illustrated in the accompanying drawings, in which—

Figure 1 is a view in elevation of a wire reel support embodying my invention.

Figure 2 is a similar view but looking in a direction at right angles to the direction of view of Figure 1.

Figure 3 is a view in section on a plane denoted by the dotted line 3—3 of Figure 1.

Figure 4 is a similar view on a plane denoted by a dotted line 4—4 of Figure 1.

Figure 5 is a view similar to Figure 1 but showing the reel tipped to one side.

In the drawings herein illustrating my improved wire reel support the numeral 6 denotes a base that may be constructed of any suitable material and of any desired shape, it answering my purpose if it have sufficient stability to steadily support a reel mounted thereon. A supporting post 7 is secured to and rises from the base and said post is provided with a spring seat 8 resting preferably upon a plate 9 secured to the post. A guide 10 is formed at one side of the spring seat for a retaining rod 11 that passes through said guide and is pivotally attached at its lower end to a treadle 12 pivotally secured to a treadle support 13 projecting upwardly from the base.

A reel supporting head 14 is pivotally secured to the upper end of the post 7, in the preferred form of construction this head having a recess 15 in its under surface into which the post projects, as shown in Figure

2 of the drawings, and this head also comprises a cam or cams 16 projecting therefrom in contact with an actuator 17 preferably in the form of a plate loosely mounted on the post 7 and receiving the thrust of an actuating spring 18 seated at its lower end in a recess in the spring seat 8 and thrusting with its upper end against the actuator 17 that is forced by said spring against the cam or cams 16, thereby tending to force the head into a definite position, as shown in Figure 1 of the drawings, and in which position a reel receiving post 19 secured to and projecting from the head will be located in a vertical position, as shown in Figures 1 and 2 of the drawings. This actuator 17 also has a guide 10 for the retaining rod 11.

A locking member 20 is secured to or formed on the side of the head, this locking member having locking notches 21 shaped to receive the upper end of the retaining rod 11, which rod is forced into said notches by a spring actuated plunger 23 seated on a spring located in a recess in the base, as shown in dotted lines in Figure 1 of the drawings, said plunger thrusting against the treadle 12 or the lower end of the rod 11.

A reel 22 is rotatably mounted on the reel receiving post 19, such reel usually supporting a coil of wire reeled thereon and from the description taken in connection with the drawings it will be seen that this reel may be readily placed in a vertical, in a horizontal, or in an intermediate position simply by releasing the locking member 20 as by means of the treadle 12, and the spring 18 will preferably be of such strength as to substantially balance the weight of the reel when filled with wire, so that the movement of such reel to any position may be effected with comparative ease.

In accordance with the provisions of the patent statutes I have described the principles of operation of my invention, together with the device which I now consider to represent the best embodiment thereof; but I desire to have it understood that the device shown is only illustrative, and that the invention may be carried out by other means and applied to uses other than those above set out.

I claim—

1. A reel support comprising a head, means for rotatably supporting said head,

- means on said head to rotatively receive a reel, a locking member rigid with said head, a retaining member to engage said locking member to positively retain said head against movement in opposite directions in different positions, and means for operating said retaining member to cause it to automatically retain said locking member.
2. A reel support comprising a head, means for rotatably supporting said head, means on said head to rotatively receive a reel, a counterpoise device for applying force to said head to rotate it, a locking member rigid with said head, a retaining member to engage said locking member to positively retain said head against movement in opposite directions in different positions, and means for operating said retaining member.
3. A reel support comprising a head, means for rotatably supporting said head, means on said head to rotatively receive a reel, a locking member rigid with said head, a spring, means on said head to receive the force of said spring to rotate said head, a retaining member to engage said locking member to retain said head against movement, and means for operating said retaining member.
4. A reel support comprising a head, means for rotatably supporting said head, means on said head to rotatively receive a reel, a cam rigid with said head, a locking member rigid with said head, means for applying force to said cam to rotate said head, a retaining member to engage said locking member to retain said head against movement, and means for operating said retaining member.
5. A reel support comprising a head, means for rotatably supporting said head, means on said head to rotatively receive a reel, a cam rigid with said head, a spring to exert force against said cam to rotate said head, a locking member rigid with said head, a retaining member to engage said locking member to retain said head against movement, and means for operating said retaining member.
6. A reel support comprising a head, means for rotatably supporting said head, means on said head to rotatively receive a reel, a cam rigid with said head, an actuator in contact with said cam, means to exert force against said actuator to rotate said head, a locking member rigid with said head, a retaining member to engage said locking member to retain said head against movement, and means for operating said retaining member.
7. A reel support comprising a supporting post, a head pivotally supported by said post, means on said head to rotatively receive a reel, a spring supported on said post, means to receive the thrust of said spring to rotate said head, means for locking said head against movement, and means for operating said locking means.
8. A reel support comprising a supporting post, a head pivotally supported by said post, means on said head to rotatively receive a reel, a locking member rigid with said head, a retaining member supported in guides on said post to engage said locking member to positively lock said head against movement in opposite directions in different positions, and means for operating said retaining member.
9. A reel support comprising a supporting post, a head pivotally supported by said post, means on said head to receive a reel, a spring seat located on said post, a cam rigid with said head, a spring supported by said seat to exert its force against said head, means for locking the head against movement, and means for operating said lock.
10. A reel support comprising a supporting post, a head pivotally supported by said post, means on said head to receive a reel, a spring seat located on said post, a cam rigid with said head, an actuator loosely mounted on the post in engagement with said cam, a spring resting against said seat and thrusting against said actuator, means for retaining said head against movement, and means for operating said retaining means.
11. A reel support comprising a supporting post, a head pivotally supported by said post, means on said head to receive a reel, a spring seat on said post, an actuator loosely mounted on said post, a spring supported by said seat and thrusting against said actuator, means for transmitting the force of said spring through the actuator to said head, a locking member rigid with said head, a retaining member supported in guides in said actuator and spring seat to engage said locking member, and means for operating said retaining member.

IRVING EPSTEIN.