M. T. KENNELLY.

REEL FOR CLOTHES LINES.

APPLICATION FILED APR. 30, 1914.

1,120,821. Patented Dec. 15, 1914.

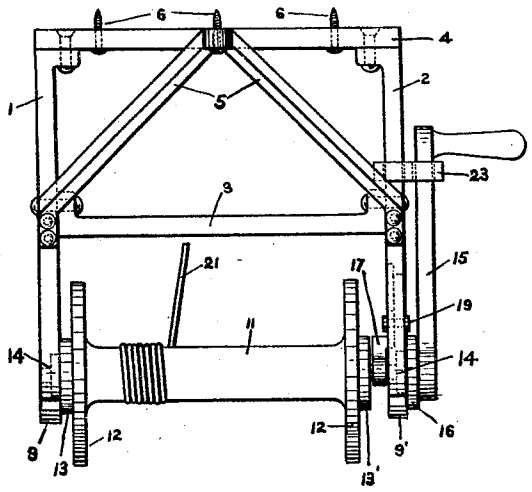


Fig. 1.

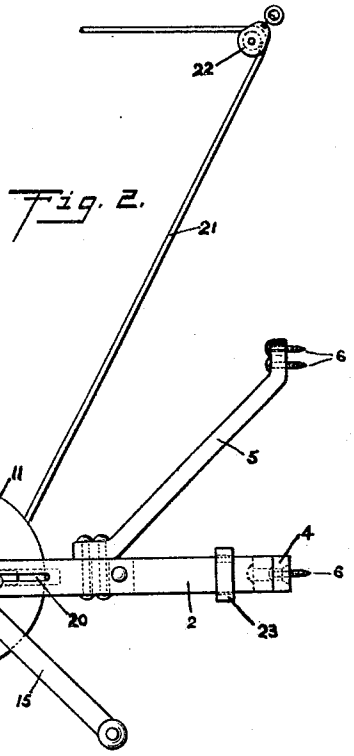


Fig. 2.

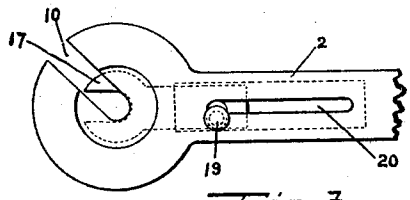


Fig. 3.



Fig. 5.

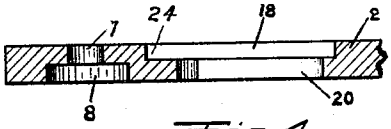


Fig. 4.



Fig. 6.



Fig. 7.

Witnesses

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UNITED STATES PATENT OFFICE.

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REEL FOR CLOTHES-LINES.

1,120,821. Specification of Letters Patent. Patented Dec. 15, 1914.

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To all whom it may concern:

Be it known that I, MICHAEL T. KENNELLY, a citizen of the United States, residing in the city of Omaha, county of Douglas, and State of Nebraska, have invented certain new and useful Improvements in Reels for Clothes-Lines, and have described the same in the following specification, illustrated by the accompanying drawings.

My invention relates primarily to reels of that class which are adapted to occasional out-of-door use as clothes-line stretchers.

It is the main object of the invention to render apparatus of this kind conveniently separable into two principal parts, one being stationary and immovable, for holding the other when in use, and the other being rotary and removable, for holding the line, and at the same time to adapt these parts to make a reliable engagement with each other whenever desired; to facilitate the quick engagement and disengagement of these parts; and in general to increase the efficiency of reels of the specified class. To accomplish this object I incorporate in my improved reel, as parts thereof, a two-armed bracket having alining bearings of a special description, a removable spool having a spindle rotatable in these bearings, and a lock between the bracket and the spool.

In the accompanying drawings, illustrating the best manner in which I have contemplated applying the principles of the invention, Figure 1 is a plan of a reel which is constructed in accordance with these principles, and is positioned and locked as in actual use. Fig. 2 is a side elevation of the same reel with a clothes line terminally attached to the spool. The other figures are enlarged details of parts of the same reel. Fig. 3 is a side elevation of a portion of one of the bracket arms, carrying the lock bolt. Fig. 4 is a central horizontal section of the same portion of the same bracket arm. Figs. 5 and 6 are respectively a side elevation and a plan of the lock bolt. Fig. 7 is a front elevation of the stop hook, slidable on one of the bracket arms.

In this illustrative specimen of my invention, the stationary part of the reel is the bracket comprising the parallel arms 1 and 2, which are connected rigidly by the crossbars 3 and 4. This bracket is to be permanently secured in a horizontal position to the side of a building or to some other suitable out-of-door support by means of the double brace 5 and by the screws 6. Transversely in the enlarged free ends, or heads 9 and 9′, of these bracket arms is formed a stepped conical bearing, comprising two component plain bearings 7 and 8, which are of unequal size, coaxial, continuous with each other, adjacent respectively to the opposite sides of the arm, and equal in collective length to its thickness. The radially directed opening 10, slightly exceeding in width the diameter of the smaller bearing 7, extends obliquely forward and upward therefrom to the periphery of the head 9′, and from side to side of that head.

The removable spool is denoted by the numeral 11. It has the flanges 12 and the coaxial disk-like spacing bosses 13 and 13′, the latter projecting from the outer faces of the flanges respectively. It has also the step spindle 14, fitted to the above described step bearings, and provided with the terminal crank 15, which is permanently secured to that spindle and is spaced from the head 9′ by the intermediate flange or collar 16. The lock for securing the spool in position in the bracket, comprises the angular bolt 17, which is slidable endwise in the channel 18, and normally retained therein by the headed pin 19 slidable in a radial direction in the slot 20 and into and out of the notch 24 in the arm 2. This notch extends horizontally across the bottom of the slot 20, and is adapted to catch the pin 19, which drops thereinto whenever the bolt 17 is pushed forward by hand to the locking position shown in Fig. 3. When shot forward to that position, this angular and bifurcated bolt engages the spindle between the boss 13′ and the head 9′, spaces those members from each other, and prevents the spindle from escaping from its bearing in the head 9′ by the way of the slot 10. By so spacing the boss 13′ from the head 9′, this bolt furthermore prevents the spindle from slipping endwise and so escaping from its stepped bearing in the head 9. The clothes line 21, which is intended to be run through the swiveled pulley 22 above, is drawn taut by turning the crank, and is held in that condition by the stop hook 23, which engages or disengages the crank, as may be desired, by sliding on the arm 2. For the purpose of being carried in out of the weather, when not in use, the spool is removable from the bracket by first sliding back the lock bolt, by then sliding the spool endwise against

the arm 2, by then lifting the crank-carrying end of the spindle from its bearing in the head 9′ by way of the slot 10, and by then withdrawing the other end of the spindle from the head 9.

I claim as my invention—

1. A reel of the specified class, comprising a bracket having two arms, two alining stepped bearings formed in the arms respectively, one of the arms having a longitudinal channel, and the bearing in said arm having a radially directed slot opening terminally upward, a spool, a spindle fixed in the spool, and having terminal stepped journals fitted to said bearings and slidable endwise therein, a sliding angular bolt, seated in said channel and adapted not only to engage the spindle but also to space the spool from said arm and thereby prevent the spindle from slipping endwise in its bearings.

2. A reel of the specified class, comprising a bracket having two arms, two alining stepped bearings formed in the arms respectively, one of the arms having a longitudinal channel, and the bearings therein having a radially directed slot opening terminally upward, a spool, a spindle fixed in the spool and having terminal stepped journals fitted to said bearings and slidable endwise therein, a sliding bolt which is seated in said channel, engages said spindle and spaces the spool from said arm, a crank for turning the spindle, a stop for the crank, and means for latching the bolt.

In testimony whereof I subscribe my name hereto in the presence of two witnesses.

MICHAEL T. KENNELLY.

Witnesses:
I. S. LEAVITT,
WILLARD EDDY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents. Washington, D. C."