

F. BOSSONG.  
TWINE HOLDER.

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# UNITED STATES PATENT OFFICE.

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## TWINE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 577,349, dated February 16, 1897.

Application filed June 9, 1896. Serial No. 594,853. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK BOSSONG, of Ellensburg, in the county of Kittitas and State of Washington, have invented a new and Improved Twine-Holder, of which the following is a full, clear, and exact description.

The object of this invention is to provide a superior twine-holder of that class in which a receptacle is provided for the twine and a take-up rod is combined with the receptacle, by means of which rod the cord is normally lifted out of the way of a person moving below the twine-holder and the cord is permitted to be drawn downward when it is desired to use the same. I attain this end by means which include a stationary and vertically-extending track or guide on which a carriage is movable, the carriage having a twine-box, and a roller pivotally mounted above the box, so as to bear on the twine which passes from the same. Pivotaly carried by the carriage is a take-up rod, to the lower and shorter end of which a spring is connected, by which the rod is held in an inclined position, the rod being capable of movement downwardly and laterally as the device is used.

The invention will be fully described hereinafter and defined in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of the holder, the take-up rod being broken away. Fig. 2 is a sectional view on the line II II of Fig. 1, and Fig. 3 is a plan view of the holder. Fig. 4 is a detail view showing the twine-guide.

In a twine-holder embodying the essential characteristics of my invention a rail 4 is rigidly supported in a vertical position and provided with a stationary track-plate 5, which is formed of an integral piece of sheet metal bent to produce a vertically-ribbed front face and two rearwardly-extending flanges, receiving between them the rail 4.

The carriage or twine-holder proper comprises a back plate 6, at the upper part of which is carried a box 7, adapted to receive the ball 8 of twine, and having its sides extended downwardly to the lower end of the

back plate 6 to form the braces 9. Stamped out of the material forming the back plate are two pairs of oppositely-arranged lips 10, which extend rearwardly from the back plate 6 and thence inwardly and embrace the edges of the track-plate 5, or the same result is attained by using special molding made from wood.

Formed in the front face of the track-plate 5 and extending to the rail 4 are a series of openings 11, in which the projection 12 of the arm 13 is adapted to extend. The arm 13 is carried by a vertical rod 14, rockably mounted in bearings 15, carried at the right-hand side of the back plate 6, and the arm 13 is located at the front of the back plate, while the projection 12 extends through an opening formed in the back plate, so as to reach the openings 11. By these means the carriage may be held at the desired adjustment on the track-plate 5, as will be explained hereinafter. The lower end of the rod 14 is formed with an inwardly-extending arm 16, having a disposition similar to that of the arm 13, the arm 16 being useful for rocking the rod 14, so as to engage and disengage the projection 12 with and from the openings 11.

Formed in the inner front portion of the box 7 is a platform 17, having a rear flange 18, in which a notch 19 is formed. Through the notch 19 the cord from the ball 8 is adapted to extend, and the cord passes under a roller 20, revoluble on a U-shaped arm 21, pivotally mounted at the rear upper side of the box 8. The front edge of the box 8 is formed with a recess 22, through which the cord also passes.

The take-up rod 23 is provided near its lower end with a hook 24, by which it is pivotally connected with the front side of the box 7, and a second hook 25 at the lower end of the rod 23 is connected with two elastic bands or other springs 26, which are in turn connected with hooks 27, formed at the ends of a bow 28, rigidly secured to the lower front portion of the back plate 6. By these means the rod 23 is normally held in the position shown by full lines in Figs. 1 and 2. The upper end of the rod 23 extends above the box 7 and is provided with an eye 29, through which the cord passes, as is shown in Fig. 2.



The length of the rod 23 above the box 7 is much greater than the relative position shown in the drawings, it being understood that the broken condition of the rod indicates that it has a greater length. A second eye 29<sup>a</sup> is also fixed to the rod 23 at a point midway its length.

In using the invention the carriage may be freely moved on the track-plate 5 and adjustably held at the desired height by means of the projection 12, fitting in the requisite opening 11. The carriage may be thus lowered to be easily reached for placing the ball of twine in the box 7, and afterward raised so as to be out of the way of persons moving beneath it. The rod 23 holds the twine raised out of position to interfere with persons below it, and by grasping the lower end of the twine the rod 23 will be moved to the position shown by dotted lines in Fig. 2, and the twine may be freely drawn from the box. It will also be seen that the rod 23 may move laterally, as the dotted lines in Fig. 1 indicate, so as to give the person using the twine a wide space in which to operate.

It will be seen that the take-up rod 23, moving frequently and quickly on its pivot, will tend to throw about the twine which lies between the rod and the box 7, and to prevent this needless and disadvantageous play of the twine the roller 20 is provided, which roller bears on the twine and holds it in place.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination with a track-plate, of a carriage movable on the track-plate, a box carried by the carriage, a platform on the box, a pivotally-mounted roller bearing on the platform, a take-up rod pivotally held by the

carriage, and a spring for the take-up rod, substantially as described.

2. The combination with a track-plate, of a carriage slidable on the track-plate, a rod rockably mounted on the carriage and having an arm with a projection, the projection being capable of locking with the track-plate, a box held by the carriage, and a take-up rod pivotally held by the carriage, substantially as described.

3. The combination with a track-plate, of a carriage comprising a back plate having lips slidably receiving the track-plate, a box held by the carriage, a platform carried by the box, a U-shaped rod having its ends pivotally connected to the box, a roller carried by the rod and bearing on the platform, a take-up rod pivotally held by the carriage, and a spring cooperating with the take-up rod, substantially as described.

4. The combination of a track-plate having a front face and flanges projecting rearwardly from the front face, a carriage having lips slidably receiving the front face of the track-plate, a box held by the carriage, and a take-up rod pivotally held by the carriage, substantially as described.

5. The combination of a track-plate, a carriage movable on the track-plate, a twine-receptacle held by the carriage, and a take-up rod also held by the carriage, substantially as described.

6. In a twine-holder, a carriage adapted to have vertical movement, a box held by the carriage, and a take-up rod pivotally mounted on the carriage, substantially as described.

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Witnesses:

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