

(No Model.)

E. J. POWERS.
TWINE HOLDER.

No. 541,679.

Patented June 25, 1895.

Fig. 1.

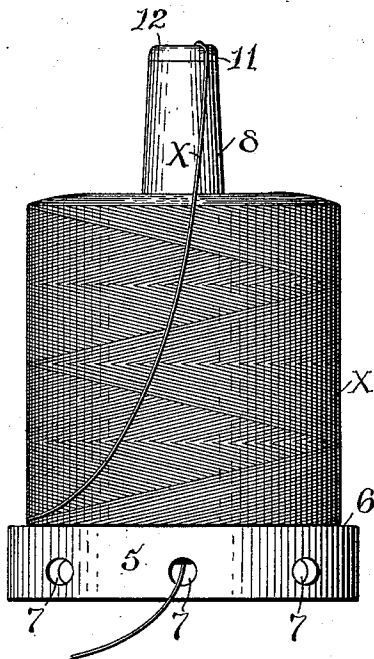


Fig. 2.

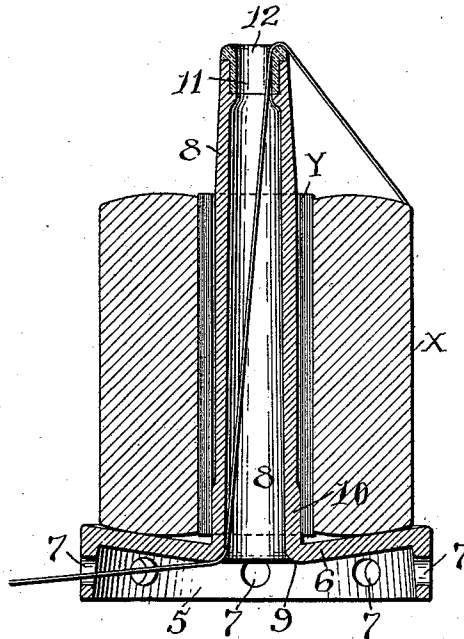
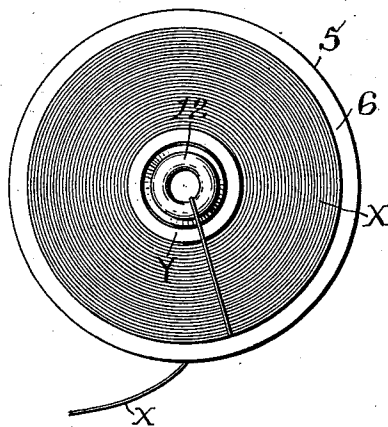


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EDWARD J. POWERS, OF FALL RIVER, MASSACHUSETTS.

TWINE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 541,679, dated June 25, 1895.

Application filed April 3, 1895. Serial No. 544,268. (No model.)

To all whom it may concern:

Be it known that I, EDWARD J. POWERS, of Fall River, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Twine-Holders; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in devices for holding balls or rolls of twine, and to facilitate the unwinding of the twine.

The invention consists in a twine-holder having a base furnished with guide-eyes and a tubular spindle extending upward from the base through which the twine may pass before reaching the lower guide-eyes.

The invention consists in such other novel features of construction to combine peculiar parts as may hereinafter be more fully described and pointed out in the claim.

Figure 1 represents an elevation of the improved yarn-holder with a yarn cop or roll thereon. Fig. 2 represents a vertical section of the same, Fig. 3 being a plan view thereof.

Similar numerals and letters of reference designate corresponding parts throughout the views.

In carrying my invention into practice it has been my desire to produce a twine-holder which would occupy but little space in excess of that of the twine ball or roll, as well as one in which a tension was exerted on the twine as it was drawn from the ball, while the twine was delivered as near the surface of the counter or table as possible.

In the drawings 5 represents the vertical annular wall of a base having the concave top 6 and furnished with one or more guide eyes 7—7. The base is preferably of cast metal to give weight to the device. From the center of the concave top 6 extends the hollow spindle 8 the juncture of which with the under surface

of the top 6 is formed by the rounded shoulder 9. This hollow spindle 8 has the lower enlargement 10 above which it extends in nearly parallel lines to a height equal to that of the cop-tube on which the twine is wound. From this point it gradually contracts in diameter to the upper end which is furnished with a socket to receive the porcelain eye 11 having the rounded edge 12. The ball or roll of yarn X is generally wound on a cop or sleeve spool Y which closely fits the enlargement 10 at the lower end of the spindle, the convex portion of the roll, formed by crowding out the yarn at the end, being received in the concavity of the top 6. The end of yarn X is loosened and is then passed down through the hollow spindle and led outward through one of the guide-eyes 7—7. If the yarn be drawn outward, it will be evident that the first tension will be exerted by the loose strand passing over the surface of the roll, the next tension will be exerted by the shoulder or edge 12 of the porcelain guide-eye, and the final tension by the shoulder 9 and the edge of the guide-eye 7 through which it passes.

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

A twine-holder, consisting of the concave top 6, the annular portion 5 below the top and having the eyes 7—7, the tubular spindle 8 extending upward from the center of the top 6 having the tension-shoulder 9 and the enlargement 10 and provided at its upper end with the eye 12, as and for the purpose described.

In witness whereof I have hereunto set my hand.

EDWARD J. POWERS.

Witnesses:

MICHAEL J. GRIFFIN,
JOHN J. POWERS.