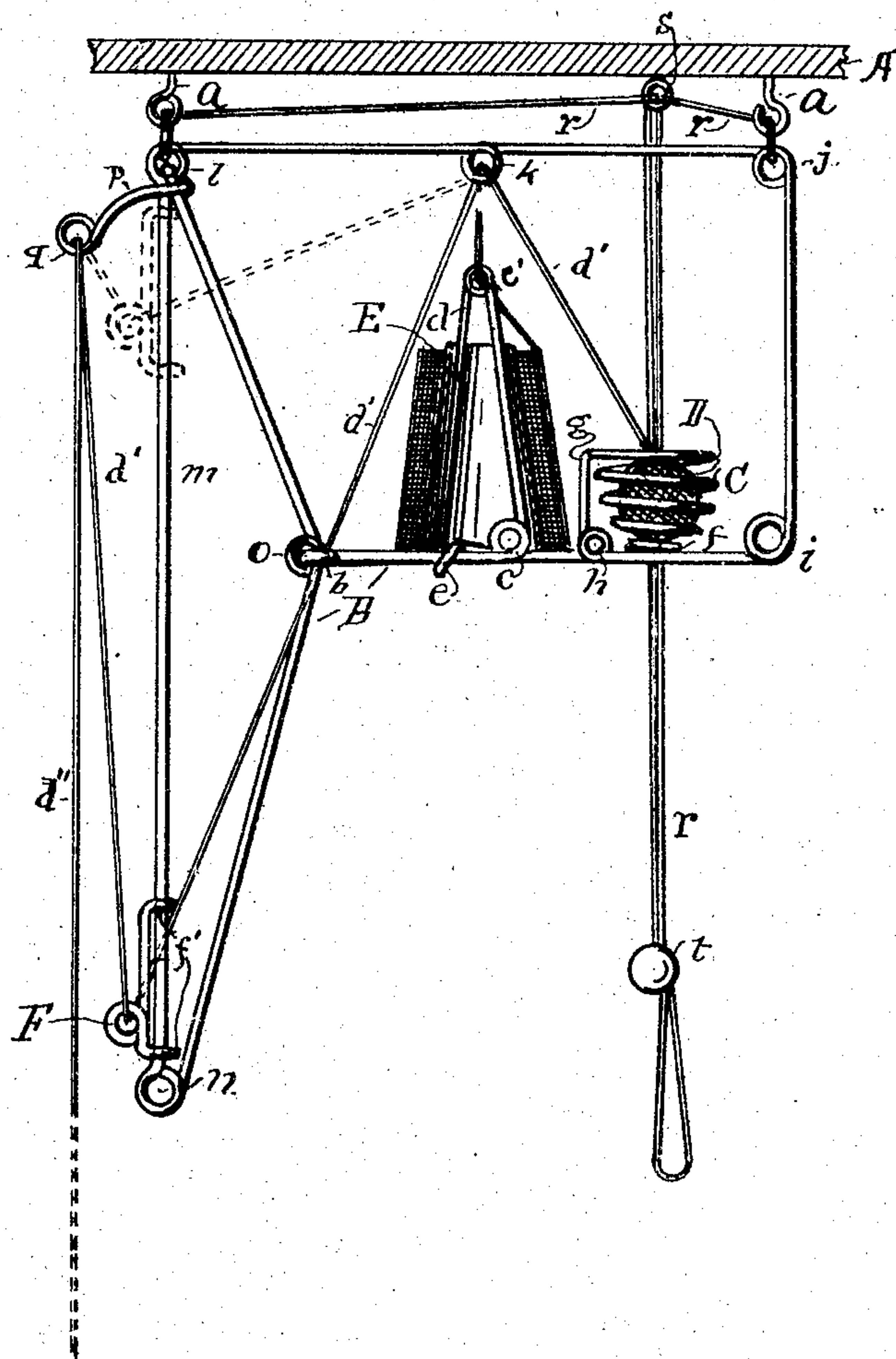


No. 780,934.

PATENTED JAN. 24, 1905.

E. O. BULMAN.  
TWINE HOLDER.  
APPLICATION FILED DEC. 23, 1903.



Witnesses.

A. Algier  
J. E. Gilley

By

Inventor

Elvah O. Bulman  
J. E. Gilley  
Attorney

# UNITED STATES PATENT OFFICE.

ELVAH O. BULMAN, OF GRAND RAPIDS, MICHIGAN.

## TWINE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 780,934, dated January 24, 1905.

Application filed December 23, 1903. Serial No. 186,385.

*To all whom it may concern:*

Be it known that I, ELVAH O. BULMAN, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Twine-Holders, of which the following is a specification.

My invention relates to improvements in appliances for holding wrapping-twine for use in tying up bundles in grocery, dry-goods, clothing, and other stores; and its objects are, first, to provide a device with which the twine may be kept in convenient reach of the operator in a neat compact condition, and, second, to provide for taking up the slack or surplus twine after use, and thus avert the danger of a long piece of twine dangling in an inconvenient and unsightly manner. I attain these objects by the mechanism illustrated in the accompanying drawing, in which I have shown an elevation of the device with two forms of twine-holders in position.

Similar letters refer to similar parts throughout the drawing.

In the drawing, A represents a section of ceiling to which the support B is secured by means of screw-eyes *a a* or other suitable device attached to the support, as at *j* and *l*. The support is made of wire and constructed practically as follows: Commencing at *b* I form a loop or ring which interlocks with the loop O. From here the wire passes practically to *c* and then up and back to *e*, forming a conical-shaped support *d* for long conical balls or rolls E of twine, (shown in section to disclose the support *d*.) and I prefer that a loop or ring *c'* be formed at the top of this support to act as a guide for the twine, which passes through the loop *k*, same as the twine *d'*, as shown, being shown broken off in the drawing to avert the danger of confusion by passing it through the ring with the twine *d'*, it not being designed to have both forms of twine rolls or balls in use at once. From *e* the wire continues to *f*, where the coiled basket or pocket C is formed for the reception of the ball of twine D, as indicated, and from the top coil of the basket the wire extends down to *h*, bends at right angles, and extends to *i*, thence at right angles to *j*, where it is secured to

one of the screw-eyes *a*, thence again at right angles to *l*, with a loop or ring *k* between these points. At *l* it is again secured to another screw-eye *a*, and from this point it extends down to *n* and up to *o* and from *o* to *l*, where it is interlocked with the loop *l*, with the end P extending out and provided with a loop *q*. I also provide a slide F, which is loosely looped around the standard *m* by the loops *f'*, so that it may easily slide up and down thereon.

To thread the support, place the ball D or the roll E, as the case may be, in place, as shown. Pass the twine up through the loop K, thence down and through the loop in the slide F and up and through the loop *q*, with the end *d''* hanging down within reach of the operator. When the end *d''* is drawn down for the purpose of wrapping it around a bundle, the slide F is drawn up to the position of the dotted lines near the top of the standard *m* before the twine unwinds from the ball or roll, and when the twine is broken off and allowed to swing free the slide F drops back to its normal position, as shown, and draws the end *d''* of the twine up out of the way, thus averting the inconvenience of a long piece of twine lying upon a counter or becoming entangled with packages and being drawn from the ball, as is often the case where the twine must be left as used.

I find it very convenient to make use of a cord *r* for connecting the support to the screw-eyes at *j* and *l*, as with it the support may be held to place by passing the cords through the loop S and securing them to the button *t*, or, if desired, it may be lowered for replacing the ball or roll of twine.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a twine-holder, a frame having an upper and a lower parallel horizontal bar, connected with twine-holders on the lower bar and loops in the upper bar, one end of said bars connected by an integral vertical end bar, a triangular frame attached to the opposite ends of these parallel bars and extending below the lower bar, one side of said triangular frame forming a vertical guide, a slide looped to said guide and having a looped re-



ceptacle for the twine, an arm projecting out from the upper end of this guide and terminating in a loop, substantially as and for the purpose set forth.

- 5 2. In a twine-holder, a wire frame having an upper and a lower horizontal bar, twine-holders upon the lower bar and loops upon the upper bar, the bars connected at one end by an integral vertical bar, a vertical guide  
10 connected with the opposite end of the lower bar, and extending up to and looped with the end of the upper bar, the end of the wire pro-

jecting outward from this point and terminating in a loop, a slide looped to said vertical guide and having a receptacle for the 15 twine between the loop on the upper horizontal bar and the loop in the projecting arm, substantially as and for the purpose set forth.

Signed at Grand Rapids, Michigan, December 19, 1903.

ELVAH O. BULMAN.

Witnesses:

C. V. CILLEY,  
I. J. CILLEY.