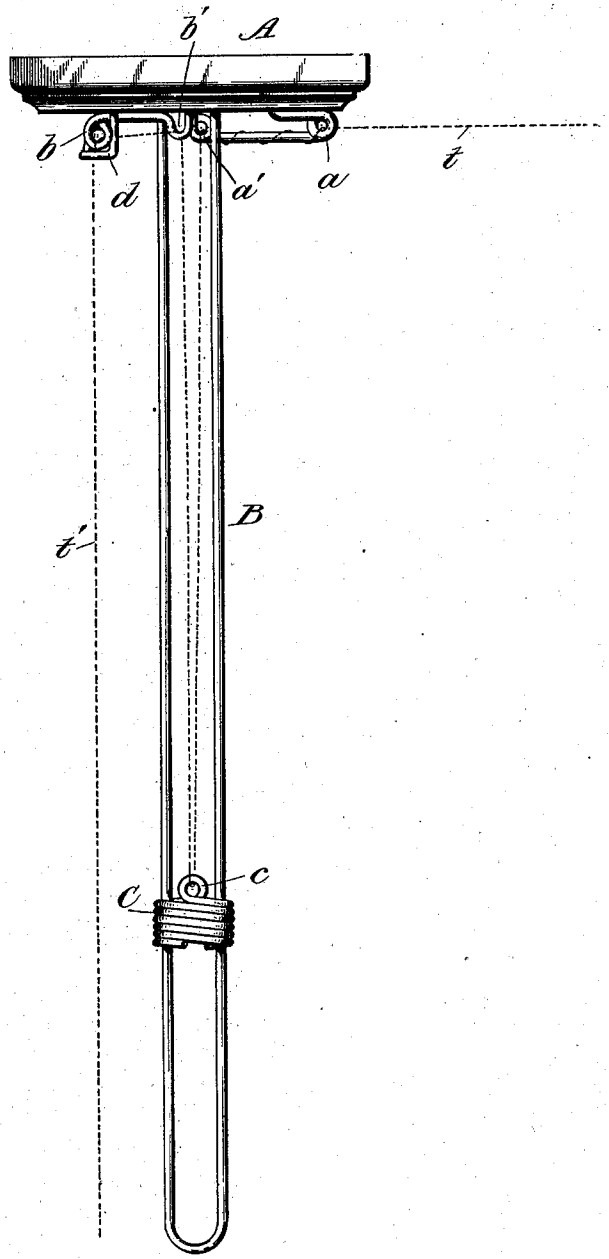
No. 712,443. Patented Oct. 28, 1902.

# A., L. & O. SOVELIUS.

## TWINE HOLDER.

(Application filed Apr. 28, 1902.)

(No Model.)




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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

ANDREW SOVELIUS, LEANDER SOVELIUS, AND OTTO SOVELIUS, OF HANCOCK, MICHIGAN.

## TWINE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 712,443, dated October 28, 1902.

Application filed April 28, 1902. Serial No. 105,113. (No model.)

*To all whom it may concern:*

Be it known that we, ANDREW SOVELIUS, LEANDER SOVELIUS, and OTTO SOVELIUS, citizens of the Grand Duchy of Finland, residing at Hancock, in the county of Houghton and State of Michigan, have invented a new and useful Twine-Holder, of which the following is a specification.

The object of our improvement is, first, to obtain a simple and practical twine-holder for the use of merchants and others which after the package is tied and the twine is cut off will raise the free end of the twine above the counter, and, secondly, to regulate the tension of the twine as it runs off. Such devices have heretofore been provided; but our invention comprises a simpler, cheaper, and more practical form of the same, as will be hereinafter more fully described with reference to the drawing, which shows a side view of our twine-holder.

In the drawing, A represents a wooden disk which is designed to be secured to the ceiling by screws or otherwise. To the under side of the disk are attached two twine-guides *a a'* and *b b'*. Straddling the inner ends of these two twine-guides is a suspended wire-loop B, having elongated parallel branches terminating in a bend at the lower end and at their upper ends firmly united to the wooden disk A and inclosing between them the inner ends *a' b'* of the two twine-guides. One of these guides has a coiled eye *a*, that receives the twine *t* from any metal basket or receptacle, and this twine is several times wrapped spirally around the horizontal portion of the guide and is then threaded through the inner eye *a'* and descends between the two branches of the elongated suspended loop B. On the two branches of the vertical loop and sliding freely up and down thereon is a runner C. This is composed of several coils of wire of sufficient weight to pull down the twine, which is threaded through an eye *c*, formed by a coil bent in the wire of the runner. From the eye *c* the twine rises between the legs of the vertical loop and is threaded through the inner loop *b'* and also through the outer eye *b* of the other twine-guide, which rests above a bend *d*, secured to disk A. From this point the twine descends to the counter within easy reach of the salesman's hand.

When a package is to be tied, the clerk seizes the free end *t'* of the cord and pulls it down. This causes the weight or runner C to rise, and the twine is allowed to slip through with a slight tension determined by the number of wraps between *a* and *a'*. After the bundle is tied and the twine cut off and the free end *t'* released again the weight of the runner C causes it to drop, and the free end *t'* is lifted above the counter out of the way a distance twice as great as the drop of the runner, as the drop of the runner causes a take-up on both runs of the twine between the legs of the loop. We are aware of the fact that a twine-holder having an automatic take-up for the free end of the cord is not broadly new, and we do not claim the same broadly, but only our novel construction and arrangement of parts, which are very simple, cheap, take up very little room, and form a practical, convenient, and efficient device for the purpose.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A twine-holder with automatic take-up, comprising a disk or plate adapted to be secured to the ceiling having twine-guides secured thereto with eyes or loops to receive the twine arranged near the center and an elongated pendent vertical loop having its two legs secured at the top to the disk or plate above and straddling the inner eyes or loops of the twine-guides and a gravitating runner sliding on the legs of the loop and having an eye through which the twine runs, substantially as described and for the purpose set forth.

2. A twine-holder with automatic take-up, comprising a disk or plate adapted to be secured to the ceiling, a twine-guide *a a'* secured to the said disk or plate and having an outer eye *a* to receive the twine, an intermediate part adapted to receive spiral wraps of

the twine and an inner eye $a'$, a second twine-guide $b\ b'$ having an outer eye $b$ and inner loop $b'$, a suspended and elongated vertical loop having its two legs parallel and connected at their upper ends to the disk or plate and straddling the inner ends of the guides, and a gravitating runner sliding up and down on the legs of the loop and having an eye through which the twine plays, said runner serving to take up the twine by its gravitating effect, substantially as described.

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Witnesses:
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