

(No Model.)

W. J. GREENE & J. L. HERLICK.

TWINE ADJUSTER.

No. 284,414.

Patented Sept. 4, 1883.

Fig. 1.

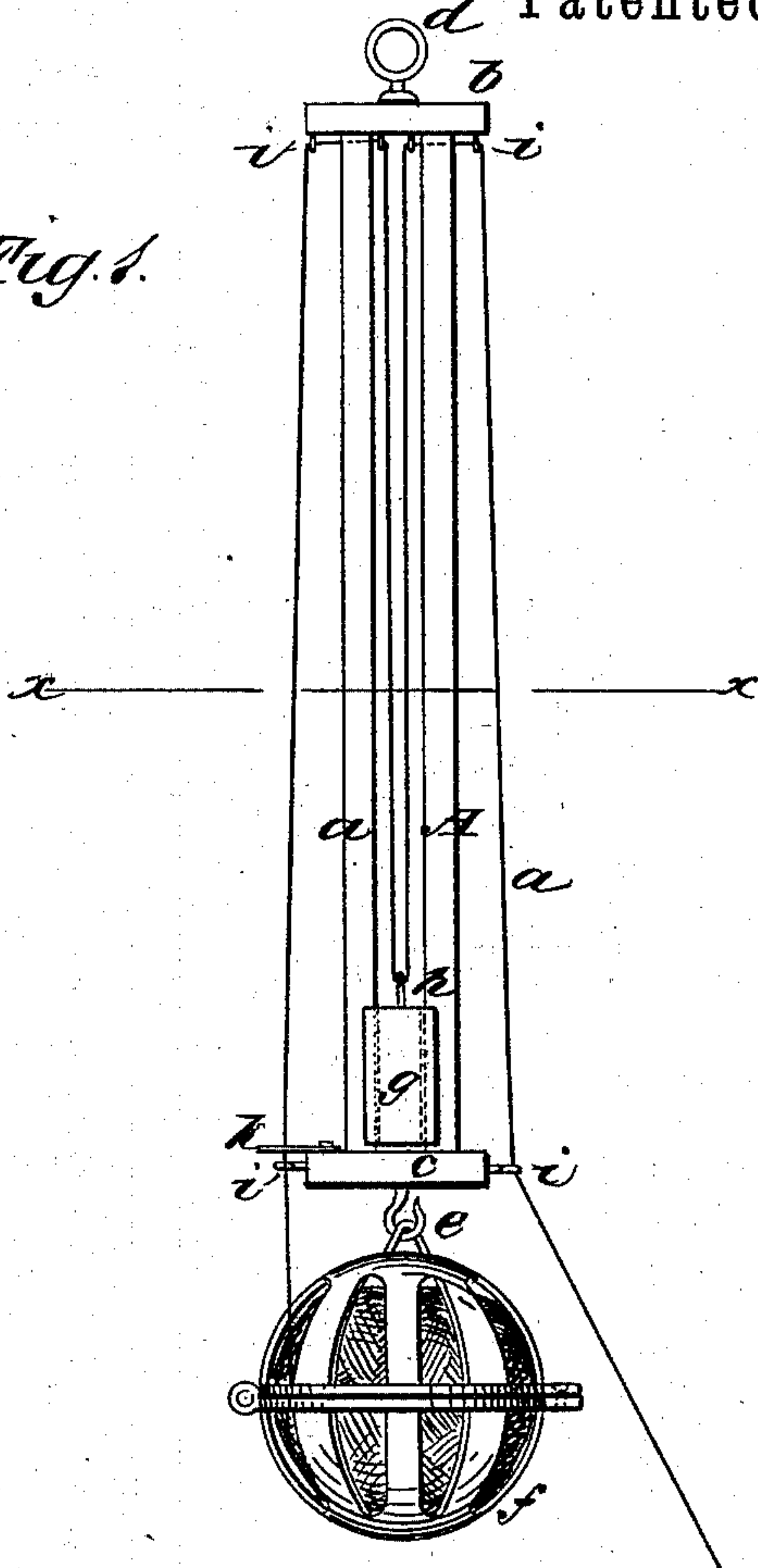
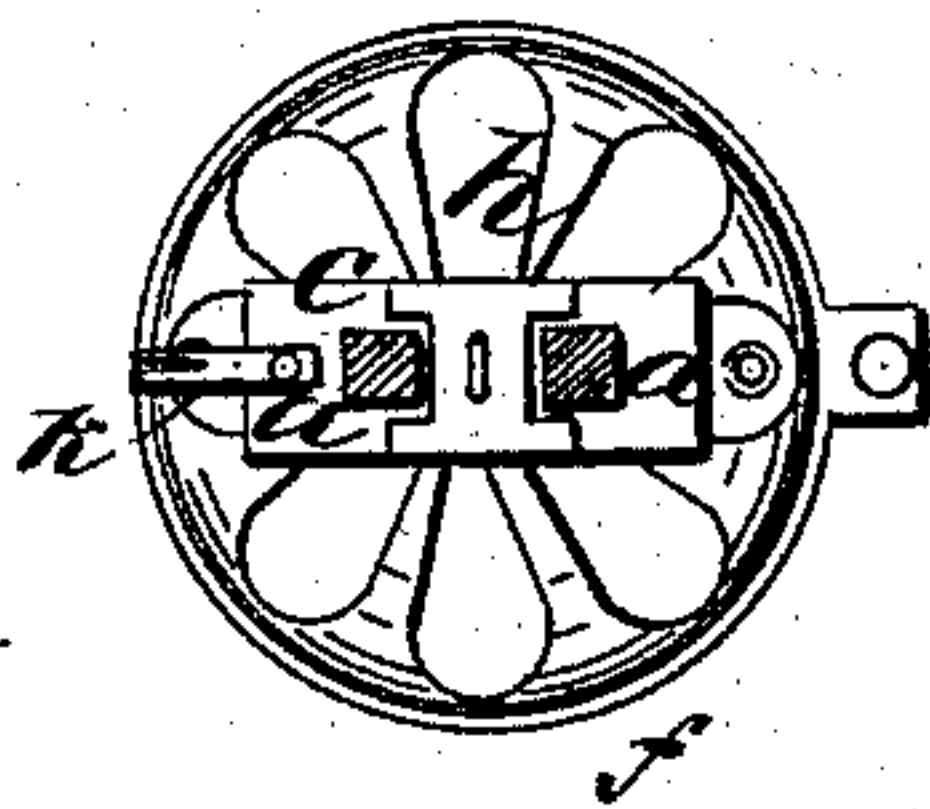


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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TWINE-ADJUSTER.

SPECIFICATION forming part of Letters Patent No. 284,414, dated September 4, 1883.

Application filed February 10, 1883. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM J. GREENE and JOHN L. HERLICK, both of Marquette, in the county of Marquette and State of Michigan, have invented a new and Improved Twine-Adjuster, of which the following is a full, clear, and exact description.

Our device is intended for use with twine-holders suspended above counters or at other places where twine is used, the object being to keep the loose end of the twine from off the counter and retain it in convenient position for use when wanted.

The invention consists in a frame carrying a sliding weight arranged for drawing up the twine when released, as hereinafter described and claimed.

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

Figure 1 is an elevation of our twine-adjuster, showing the same arranged for use; and Fig. 2 is a cross-section of the frame on line *x x* of Fig. 1.

The frame A, composed of side bars, *a a*, top cross-piece, *b*, and bottom cross-piece, *c*, may be made of any suitable material and of any required length. At the top the frame is provided with an eye or hook, *d*, for suspension, and at the bottom with a hook, *e*, for receiving an ordinary twine-holder or box, *f*; but the twine-holder may be placed otherwise than suspended from the frame. Between the side bars, *a*, and grooved to slide freely thereon, is a weight, *g*, of suitable size, according to the size of cord or twines the adjuster is used with, and fixed to the weight is an eye, *h*. The frame A is also provided with eyes *i* at its upper and lower ends for guiding the twine, and

upon the frame is a tension-spring, *k*, for holding the twine, so as to prevent it from running out too freely. The frame, with the twine-holder, is to be suspended above a counter or at any desired place. The cord from the holder is passed through the eyes to the top of the frame, then down through the eye *h* on the weight, then up and down again, the loose end left free. When the twine is drawn upon for use, the weight will be drawn up until the tension is sufficient to overcome the friction of the spring, when the twine will be drawn from the holder. As soon as the twine is released the weight will run down and the end will be drawn up off the counter, out of the way.

It will be seen that the operation is automatic, and the cord being doubled on the frame, as shown, a short movement of the weight draws a considerable length of twine.

The device may be constructed to suit any situation, and is of simple and inexpensive construction.

We are aware that a take-up for twine-holders has been formed of a slotted tube having suspension-rings, an eye and eyelets, and a weight having a pin and an eye; but

What we claim as new and of our invention is—

The frame A, formed of the side bars, *a a*, top cross-piece, *b*, and bottom cross-piece, *c*, having a hook and eyes *i i* at the top and bottom, and provided with the grooved weight *g*, having a top eye, whereby it may be used in connection with a twine-holder, as described.

WILLIAM J. GREENE.
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Witnesses:

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