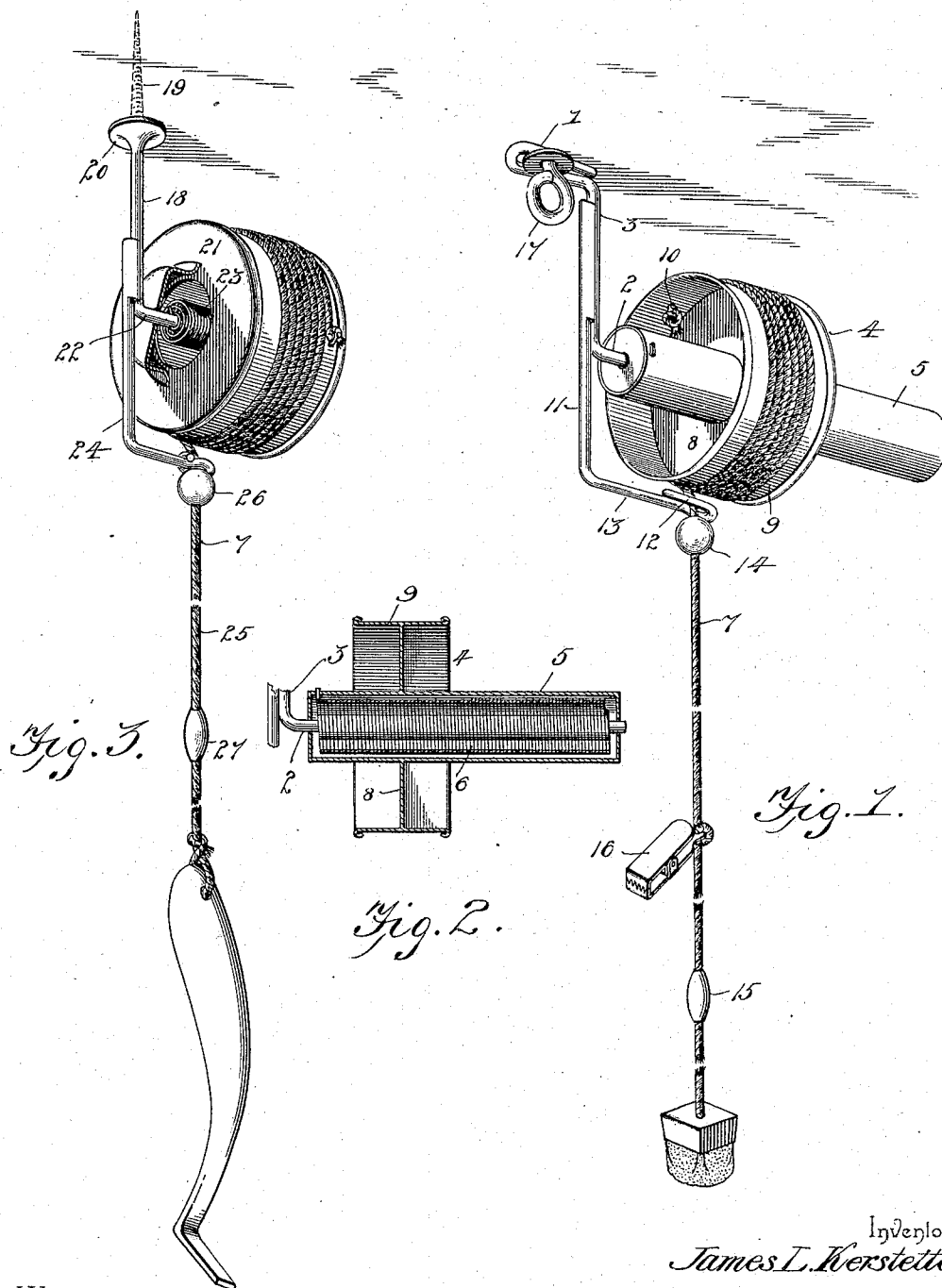


(No Model.)

J. L. KERSTETTER.
DEVICE FOR SUSPENDING STOVE LIFTERS.

No. 567,597.

Patented Sept. 15, 1896.



Witnesses
C. M. Monroe
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UNITED STATES PATENT OFFICE.

JAMES L. KERSTETTER, OF MILTON, PENNSYLVANIA.

DEVICE FOR SUSPENDING STOVE-LIFTERS.

SPECIFICATION forming part of Letters Patent No. 567,597, dated September 15, 1896.

Application filed June 6, 1896. Serial No. 594,588. (No model.)

To all whom it may concern:

Be it known that I, JAMES L. KERSTETTER, a citizen of the United States, residing at Milton, in the county of Northumberland and State of Pennsylvania, have invented a new and useful Device for Suspending Stove-Lifters, &c., of which the following is a specification.

This invention is designed to provide an improved means for suspending stove-lifters, billiard-chalk, bar-towels, blotting-paper, and other objects which it may be required to have within convenient reach and at a definite point, so that when wanted they can be found without occasioning loss of time in searching for the same and the consequent vexation and annoyance.

Others objects and advantages are contemplated and will become manifest as the nature of the invention is disclosed, and to this and such other ends as appertain to the character of the improvement the latter consists of certain novel features, details of construction, and peculiar combinations of parts which hereinafter will be more fully described, illustrated, and claimed.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a suspending device constructed in accordance with the present invention. Fig. 2 is a longitudinal section of the barrel and drum. Fig. 3 is a detail view, partly in section, of a modification.

The same reference-numerals denote corresponding and like parts in all the figures of the drawings.

The bracket-support is formed of a length of wire of proper gage to give the necessary stability to the device, and this wire is bent at one end to form a loop 1 and at its opposite end to form a spindle 2, the intermediate portion 3 serving to throw the parts 1 and 2 in different relative planes, whereby the drum 4 will clear the support to which the device is attached.

The barrel 5 is mounted upon the spindle 2 and incloses the spiral spring 6, by means of which the thread or cord 7 is wound upon the drum 4, so as to return the article attached thereto to its proper position. The spring 6, which may be single or double or composed of any number of layers, is inclosed by the barrel and is secured thereto at one end in any convenient way and has its opposite end suitably attached to the spindle 2, whereby upon rotating the drum upon the spindle the spring will be subjected to tension, and when released will, upon regaining itself, rotate the drum in a reverse direction and wind the thread or cord 7 thereon and return the article having connection therewith to its predetermined position, so as to be within easy and convenient reach.

The drum 4 is mounted upon the barrel and comprises a web portion 8 and a rim 9, the latter projecting equidistant from the sides of the web and having its edge portions extending outwardly to prevent the slipping of the thread or cord therefrom. An opening 10 is formed in the rim 9, and through this opening is passed the end of the thread or cord 7, which is knotted so as to form positive attachment of the thread or cord with the drum to insure the proper working of the device. An arm 11 is secured by soldering or otherwise to the portion 3 of the bracket, and its free end is bent to extend across the path of the drum 4, and is provided with a guide-eye 12, which comes opposite the middle portion of the drum and through which passes the thread or cord 7, whereby the latter is given proper direction when winding and unwinding from the drum. By varying the position of the bent end portion 13 of the arm 11 the friction upon the thread or cord can be altered, so that the drum will wind up the cord with a greater or less speed.

The thread or cord 7 is provided in its length with a button 14, which forms a stop and which engages with the eye 12, so as to prevent the overwinding of the cord and to insure that the article will at all times be suspended at the required elevation, so as to be easily accessible. The article to be suspended or returned to the proper point is attached to the end of the thread or cord in any convenient way, and in order to prevent that por-

tion of the cord exterior to the button 14 from swaying about a weight 15 is applied thereto, and this weight also causes the cord to move steady when being wound upon the drum after the article attached thereto is released. A clasp 16 of suitable construction is attached to the cord to receive a blotter or other paper when the device is to be used for returning such paper to a normal position where it can be readily found.

The device can be attached to a ceiling, wall, counter, or to any suitable support by means of a fastening 17, which, as shown, is an ordinary screw-eye and passes through the loop 1 and into the support.

In the modification shown in Fig. 3 the bracket 18 is formed at one end with a screw-point 19 to enter the support to which the device is to be attached, and a washer 20, secured to the bracket at the base of the screw-point 19, limits the penetration of the latter and provides an extended bearing against the part into which the screw-point enters. The drum 21 is mounted upon the spindle 22, forming the outer end portion of the bracket, and a spring 23 operatively connects the drum with its supporting-spindle, being attached at one end to the drum and at its opposite end to the spindle. An arm 24, similar in construction to the arm 11, is attached to the bracket 18, and the guide-eye formed at the extremity of its bent end receives the cord 25, which is adapted to wind upon the drum and which has the device to be suspended attached thereto, said cord having a button or stop 26 and a weight 27, similar to the preferred form of the invention.

Having thus described the invention, what is claimed as new is—

1. In a suspending device for the purpose specified, the combination of a bracket provided at one end with means of attachment to a support, and having its other end portion formed into a spindle, a drum mounted upon the spindle, a spring operatively connecting the drum with the spindle, a cord secured at one end to the drum and adapted when unwinding therefrom to wind the spring, and vice versa, a button on the cord to limit the winding thereof upon the drum, and an arm

attached to the bracket and having its free end portion bent to extend over the drum and terminating in an eye through which passes the said cord and which engages with the button thereof to limit the winding of the cord upon the drum, substantially as set forth.

2. In a device of the character set forth, the combination of a bracket having a spindle, a barrel mounted upon the spindle, a spring placed within the barrel and having one end connected therewith and its opposite end attached to the spindle, a drum mounted upon the barrel, an arm attached to the bracket and having an eye at its free end opposite the middle portion of the drum, a cord secured at one end to the drum, passing through the eye of the said arm, and having the article to be suspended attached thereto, a button secured to the cord to limit the winding thereof upon the drum by engagement with the eye, and a weight applied to that portion of the cord exterior to the button at a point between the latter and the article to be suspended, substantially as and for the purpose set forth.

3. The herein shown and described suspending device, comprising a bracket formed of a length of wire having a loop at one end, a spindle at the opposite end, and an intermediate portion throwing the spindle and loop in different planes, a barrel mounted upon the spindle and provided with a drum, a spring inclosed within the barrel and secured to the latter and the spindle, an arm secured to the intermediate portion of the bracket and having its free end bent to project across the path of the drum and terminating in a guide-eye, and a cord having connection with the drum and passing through the said guide-eye, and provided with a button and a weight, and adapted to have the article to be suspended applied thereto, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES L. KERSTETTER.

Witnesses:

L. S. HARTMAN,
E. FREGMIRA.