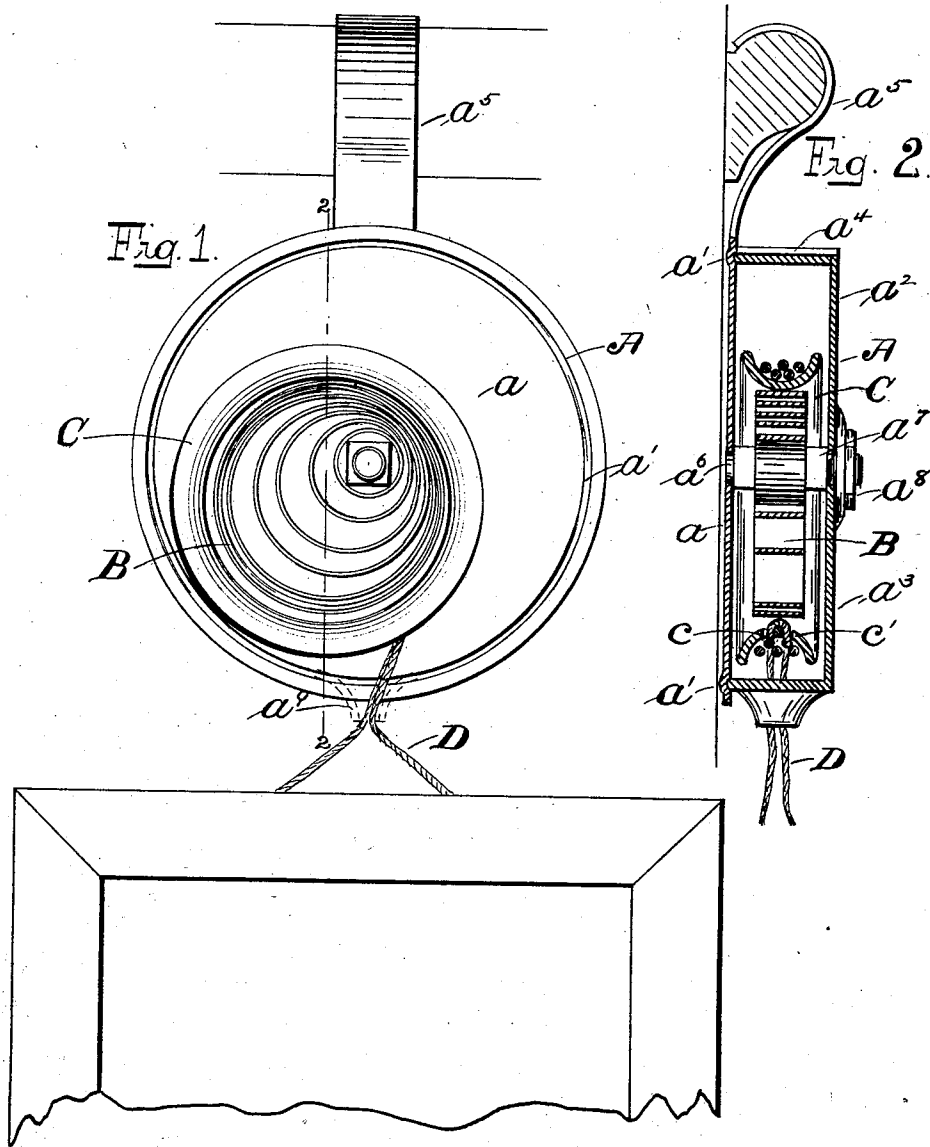


No. 703,709.

Patented July 1, 1902.

C. L. OLMSTEAD.
ADJUSTABLE HANGER.
(Application filed Apr. 10, 1902.)

(Model.)



WITNESSES:

J. J. Coleman
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UNITED STATES PATENT OFFICE.

CLARENCE L. OLMSTEAD, OF NEW HAVEN, CONNECTICUT.

ADJUSTABLE HANGER.

SPECIFICATION forming part of Letters Patent No. 703,709, dated July 1, 1902.

Application filed April 10, 1902. Serial No. 102,281. (Model.)

To all whom it may concern:

Be it known that I, CLARENCE L. OLMSTEAD, a citizen of the United States, and a resident of the city and county of New Haven and State of Connecticut, have invented a new and useful Improvement in Adjustable Hangers, which is fully set forth and described in the following specification, taken in connection with the drawings, which form a part thereof, and in which—

Figure 1 is an elevation with casing with cap removed; Fig. 2, a side elevation in section through 2-2 of Fig. 1.

In both figures similar letters of reference represent like parts.

My invention relates to adjustable hangers for the display of articles, and more particularly to that class of adjustable hangers known as "picture-hangers," and has for its object the construction of a hanger for a picture, map, or other suitable article so that the object to be hung may be adjusted at any height desired by the operator, as more fully described hereinafter.

In the drawings, A represents a removable case or casing of metal or other suitable material, consisting of a back a , having formed near the outer edge thereof a groove a' , into which is adapted to fit a cap a^2 , consisting of a front piece a^3 and a rim a^4 , formed integral therewith. On the outer surface of the back a of the casing A is secured a hook a^5 , while rigidly secured on the inner side of said back a is a laterally-extending rod or bolt a^6 , adapted to extend through a perforation a^7 in the front a^3 and receive a nut a^8 to hold the parts of said casing together when they are assembled. One end of a flat coiled spring B is rigidly secured to said rod a^6 in well-known manner, and the other end of said spring B is rigidly secured to the inner periphery of a loose channeled drum C. A cord D of string, wire, tape, or other suitable material is adapted to pass through perforations c and c' in the periphery of the drum C and be wound thereon in well-known manner, while the free ends of said cord are adapted to extend through a perforation a^9 in the rim a^4 of said casing A for the attachment of a picture or similar article thereto, as shown in Figs. 1 and 2.

In operation a picture or similar article is attached to the outer ends of the cord D and

pulled downward to the desired hanging position by the operator, causing the drum C to revolve as the cord is unwound, and thus tighten the spring B. When the picture or similar article attached to the cord is in the desired position, the weight thereof, owing to the looseness of the drum, tends to draw the latter downward to force the periphery of said drum against the inner side of the casing to act as a brake, the weight of said picture or other article attached to the outer end of said cord, with the brake action of the drum, being sufficient to overcome the tension of the spring to revolve the drum in the opposite direction and rewind the cord. When it is desired to raise the picture or other article, the lifting of the same by the operator releases the weight on the cord, and consequently the weight on the drum, when the tension of the spring will be sufficient to revolve the drum to rewind the cord until the picture or other article attached thereto is in the desired position, when its weight will hold it in place, as above described, by the action of the brake. When it is desired to decrease or increase the tensile strength of the spring for the purpose of supporting a heavier or lighter picture or similar article, the cap a^2 may be loosened by the operator from the back a by unscrewing the nut a^8 , when the operator by taking hold of the cord D where it extends through the perforation a^9 and then moving to the right or left the cap a^2 causes the drum C to revolve, and thereby tend to wind or unwind the spring B and increase or decrease the tensile strength thereof, after which the cap a^2 may again be tightly fastened to the back a by tightening the nut a^8 in well-known manner.

Having now described my invention, which may vary in detail without departing from the spirit thereof, what I claim, and desire to secure by Letters Patent, is—

1. In a casing the combination with a rod secured therein; of a flat coiled spring, one end of which is adapted to be rigidly attached to said rod; a loose drum, the periphery of which is adapted to bear on the inner side of said casing and be rigidly secured to the other end of said flat coiled spring; and a cord adapted to be wound on said drum, substantially as described.

2. In a casing having a removable cap, the combination with a rod, one end of which is rigidly secured to the back of said casing, and the other end passes through a perforation in the front of said casing; a nut screwed on said rod to hold the cap of said casing in position; a flat coiled spring, one end of which is rigidly attached to said rod; a loose channeled drum, the periphery of which is adapted to bear on the inner side of said casing and be rigidly secured to the other end of said flat coiled spring; a cord adapted to be wound on the channeled part of said drum; said cas-

ing having a perforation through which said cord passes, and a hanger secured to the outer side of said casing, substantially as described. 15

In witness whereof I have hereunto set my hand, at New Haven, county of New Haven, State of Connecticut, this 8th day of April, 20 1902.

CLARENCE L. OLMSTEAD.

Witnesses:

M. A. SEGAR,

GEORGE W. ROBINSON.