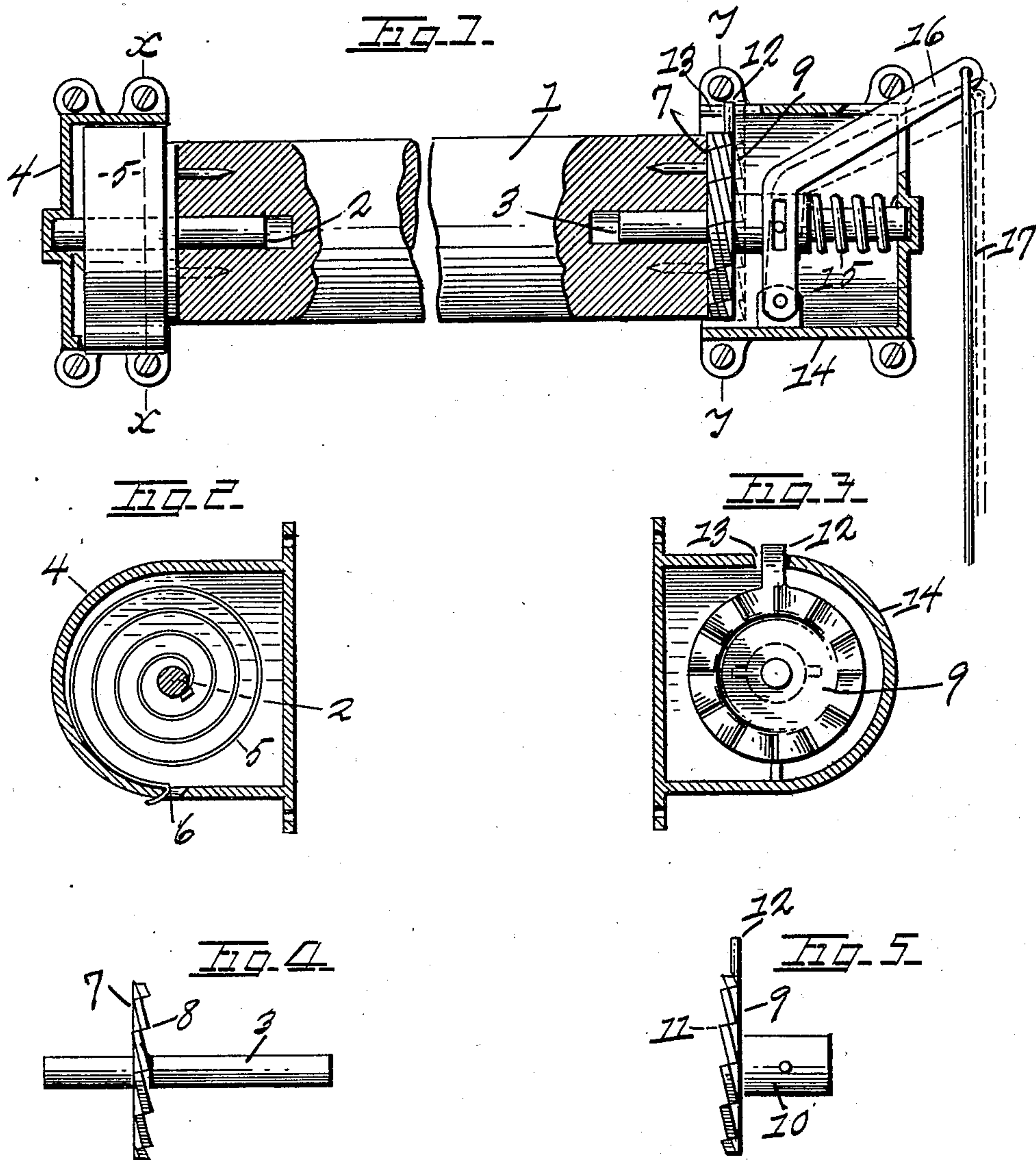


No. 725,728.

PATENTED APR. 21, 1903.

B. LEON.
CURTAIN OPERATING MECHANISM.
APPLICATION FILED JAN. 15, 1903.

NO MODEL.



WITNESSES
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UNITED STATES PATENT OFFICE.

BERT LEON, OF TOLEDO, OHIO.

CURTAIN-OPERATING MECHANISM.

SPECIFICATION forming part of Letters Patent No. 725,728, dated April 21, 1903.

Application filed January 15, 1903. Serial No. 139,103. (No model.)

To all whom it may concern:

Be it known that I, BERT LEON, of Toledo, county of Lucas, and State of Ohio, have invented certain new and useful Improvements in a Curtain-Operating Mechanism; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

This invention has reference to a curtain-operating mechanism, and has for its object to provide an effective device of this character which shall be simple in construction and positive in operation, being especially designed to overcome the many objections accompanying the employment of the ordinary curtain-operating devices.

In carrying out my invention I employ the novel arrangements hereinafter shown, described, and claimed.

In the drawings, Figure 1 is a sectional elevation showing the parts of my invention. Fig. 2 is a section through the spring-containing case, disclosing the spring therein, the section being taken on line *x x*, Fig. 1. Fig. 3 is a section through the case inclosing the clutch mechanism, the section being taken on line *y y*, Fig. 1; and Figs. 4 and 5, respectively, are elevations of the serrated disks.

1 is a curtain-pole upon which the curtain is adapted to be rolled, and the ends thereof are bored out centrally to receive spindles 2 and 3, respectively, for rotatably mounting the pole.

4 is a case inclosing a band-spring 5, the outer free end of which is in the form of a hook and engages a slot 6, provided in the case, and the inner end of the spring is secured to the spindle 2, so that when the curtain is unrolled from the curtain-pole the spring will be wound up and held under tension.

7 is a disk, preferably constructed of sheet-steel, secured upon the end of the curtain-pole, and the same is formed upon its face with serrations 8.

9 is a disk, also preferably constructed of sheet-steel, having a hub portion 10 for

slidably mounting upon the spindle 3, and the same is provided upon its face with serrations 11, adapted when the adjacent faces of the disks are in contact to engage the serrations 8. When the disk 9 is moved away from the disk 7, the serrations will be out of engagement.

12 is a laterally-extending lug provided upon the disk 9 and adapted to occupy a slot 13, formed in the inclosing case 14, and by engagement of the margin of the slot hold the curtain-pole from rotation by the action of the band-spring 5.

15 is a coiled wire spring surrounding the spindle 3 and maintained under slight compression between the wall of the case 14, supporting the spindle, and the hub of the disk 9.

16 is a lever suitably pivoted at one end to the case and adapted to engage the hub of the disk 9 by any suitable means, that shown being an ordinary slot-and-pin connection. The free end of the lever 16 is extended through the case for operation on the exterior, a cord 17, attached thereto, permitting convenient operation.

The operation will be readily understood from the foregoing description. When the curtain is unrolled, the spring is wound up and held under tension to be later employed to roll the curtain up when the curtain-pole is released. To raise the curtain, the cord 17 is pulled slightly downward, which will cause disengagement of the serrated disks and the consequent release of the curtain-pole, which will then roll up the curtain.

The simple and practical arrangement of the various parts will insure long use with little danger of getting out of order. By providing a plurality of serrations upon the disks there is not the usual danger of breakage which accompanies the employment of an ordinary pawl-and-ratchet mechanism.

The novelty and utility of my invention will be apparent.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a curtain-operating mechanism, a curtain-pole having spring-actuated means for rotating the same when released, and a clutching mechanism comprising a serrated disk secured upon one end of the pole, a second ser-

rated disk adapted to be moved into and out of engagement with the first-named disk and provided with a laterally-extending lug, a case for inclosing the clutching mechanism provided with a slot to engage the lug upon the second disk, a lever pivoted at one end to the case adapted to actuate the second disk, and a spring adapted to press upon the second disk and hold the same normally in engagement with the other disk, referred to, substantially as described.

2. In a curtain-operating mechanism, a curtain-pole having spring-actuated means for rotating the same when released, a disk secured upon one end of the pole provided on its face with peripheral serrations, a spindle entering the pole through the center of said disk, a second disk mounted to slide upon the

spindle and also provided with peripheral serrations and having a laterally-extending lug, an inclosing case provided with a slot to engage the lug upon the second disk, a lever pivoted at one end to the case and connected with the sliding disk to actuate the same, and a coiled spring surrounding the spindle and interposed between the wall of the inclosing case and the sliding disk, substantially as shown and described.

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

BERT LEON.

Witnesses:

CARL H. KELLER,

CHAS. C. DEFENBAUGH.