

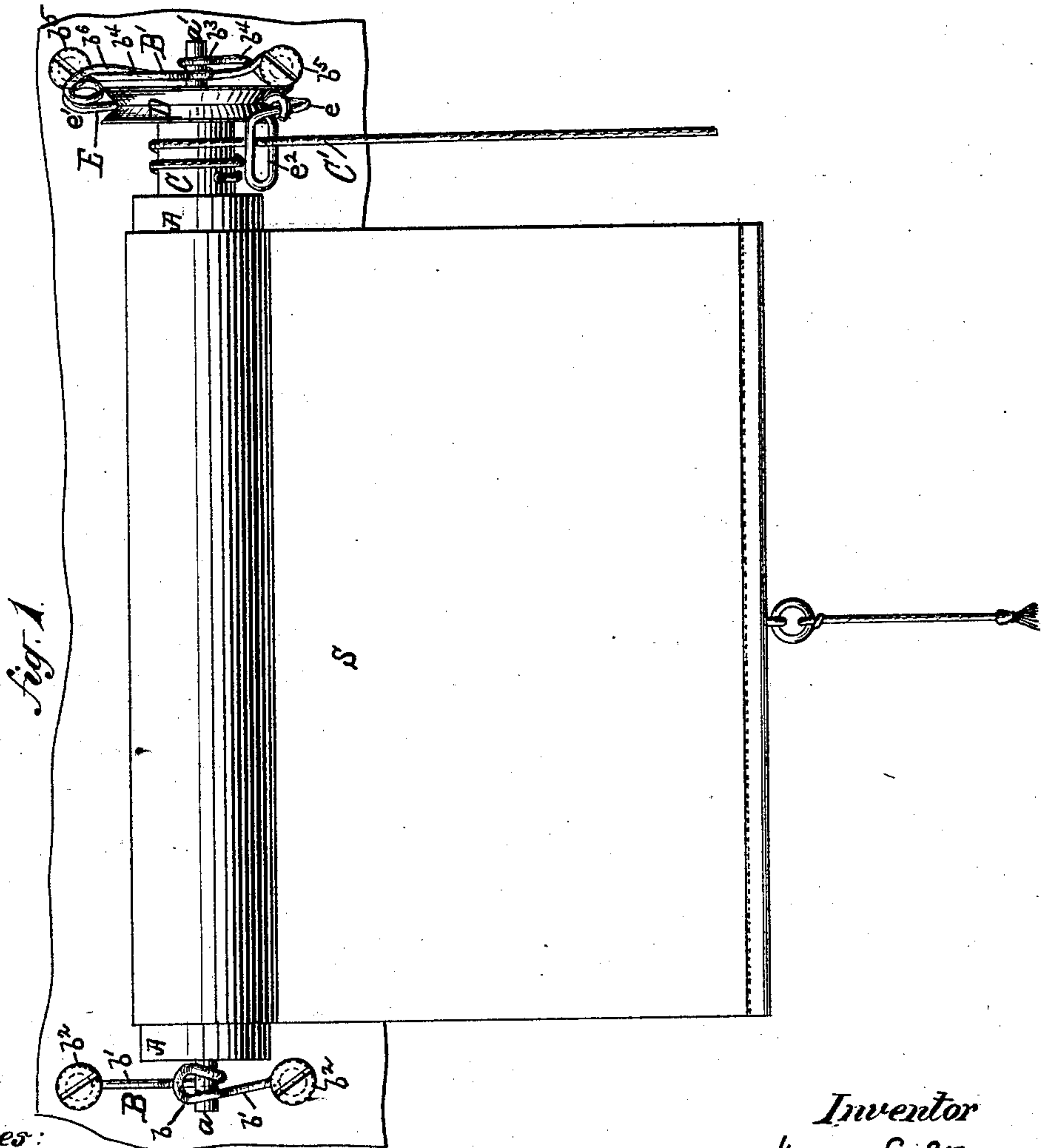
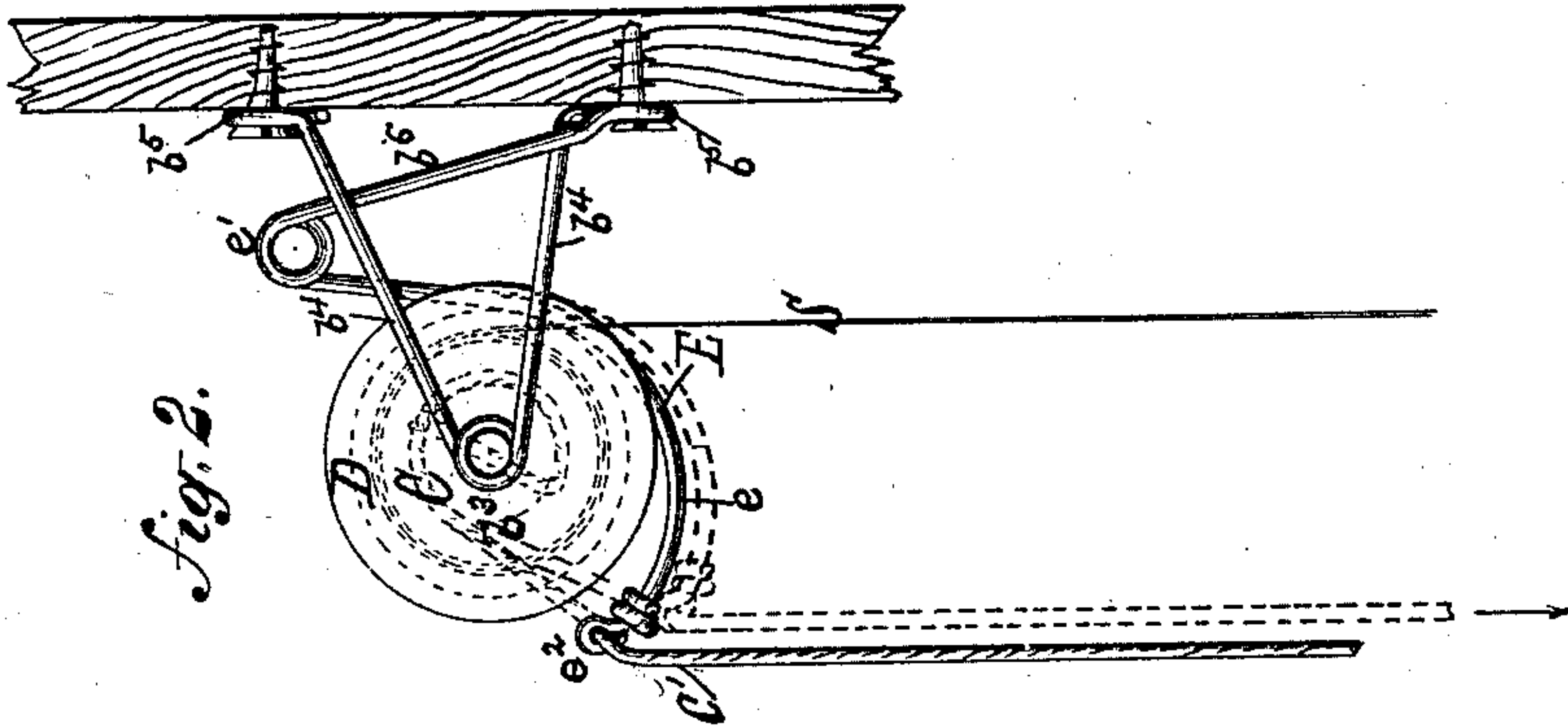
(No Model.)

H. E. STOVER.

SHADE FIXTURE.

No. 297,030.

Patented Apr. 15, 1884.



Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY E. STOVER, OF ST. LOUIS, MICHIGAN.

SHADE-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 297,030, dated April 15, 1884.

Application filed July 3, 1883. (No model.)

To all whom it may concern:

Be it known that I, HENRY E. STOVER, of St. Louis, Gratiot county, Michigan, and a citizen of the United States, have invented certain Improvements in Shade-Fixtures, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a window-shade; and it consists in a shade-roller in combination with the devices hereinafter particularly described.

Figure 1 is a front elevation, and Fig. 2 is an end view, of a window-shade and its fixtures containing my invention.

S is the window-shade.

A is the shade-roller, intended to be mounted at the top of the window-frame.

Upon one end of the roller—preferably the left-hand end—is the pivot or journal a , adapted to rest in the open bracket-bearing B, which may be formed of a single piece of wire, bent into a curved loop, b , to constitute the open bearing, and with its ends extended at an angle up and down from said bearing, as at b' , the extremities of these ends being bent into loops to receive the fastening screws or nails, as seen at b^2 . The opposite end of the roller A is extended somewhat beyond the line of the edge of the shade, and with a reduced diameter, to form a barrel, C, upon which the operating-cord is wound. Upon the outer end of the barrel C is fixed the grooved pulley D, as shown, said pulley being preferably of greater diameter than said barrel. Extending from the thus formed roller end is the pivot or journal a' , which is adapted to rest in the bearing-bracket B'. This bracket carries the closed bearing b^3 , which is preferably formed by coiling once upon itself, as shown, a single piece of wire, the ends of the wire being extended upward and downward from the said bearing b^3 , as seen at b^4 , and their extremities being curved and turned at right angles to said ends, to constitute loops for the fastening-screws, as seen at b^5 .

E is a friction-lever, which is adjusted to rest in the groove of and thus engage the pulley D, and it passes downward at the rear of and then around under the said pulley, and its end is then curved or turned somewhat away from said pulley to constitute the

operating-arm e . This lever is pressed against the pulley D by the spring e' , and it is preferable that the wire of the lower arm of the bracket B' should be continued beyond its loop b^5 , and carried upward beyond the line of the top of the pulley D, as at b^6 , then coiled upon itself to form the spring e' , and then carried downward, and curved to form the lever E and its arm e . By this means the spring-lever is readily constructed and mounted in place.

In operating my invention, when the shade is pulled downward, the cord C', attached firmly at one end to the barrel C, is coiled up on said barrel, the friction of the spring-lever E against the pulley D being overcome by the pull upon the shade, and said lever serving to hold the shade in any desired position when the shade is released from such pull. The free end of the cord C' passes from the barrel C through a bearing-loop, e^2 , formed on the end of the arm e of the lever E, and depends thence at the side of the window-frame. When it is desired to roll up the shade, the cord C' is pulled downward, and it operates, by its engagement with the loop e^2 , to draw the lever E out of engagement with the pulley D, and thus leave the roller A free to rotate, and the pull being continued, the uncoiling of the cord from the drum C rotates the roller and rolls up the shade thereon. When the cord C' is released, the lever E is carried by its spring into engagement with the pulley D, and the roller is consequently held stationary, and the shade thus retained at the desired height.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination, with the shade-roller A, journaled at a' to run freely in bearings, as described, and provided with the barrel C and operating-cord C', together with the pulley D, of the bracket B, carrying the bearing b^3 , and the friction-lever E, with its spring e' , arm e , and loop e^2 , said bracket and lever being formed of a single piece of wire bent and turned upon itself to constitute said bearing, lever, spring, arm, and loop, as specified, and for the purpose set forth.

HENRY E. STOVER.

Witnesses:

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