

H. H. PHILLIPS.  
Improvement in Curtain Fixtures.  
No. 124,153. Patented Feb. 27, 1872.

Fig. 1.

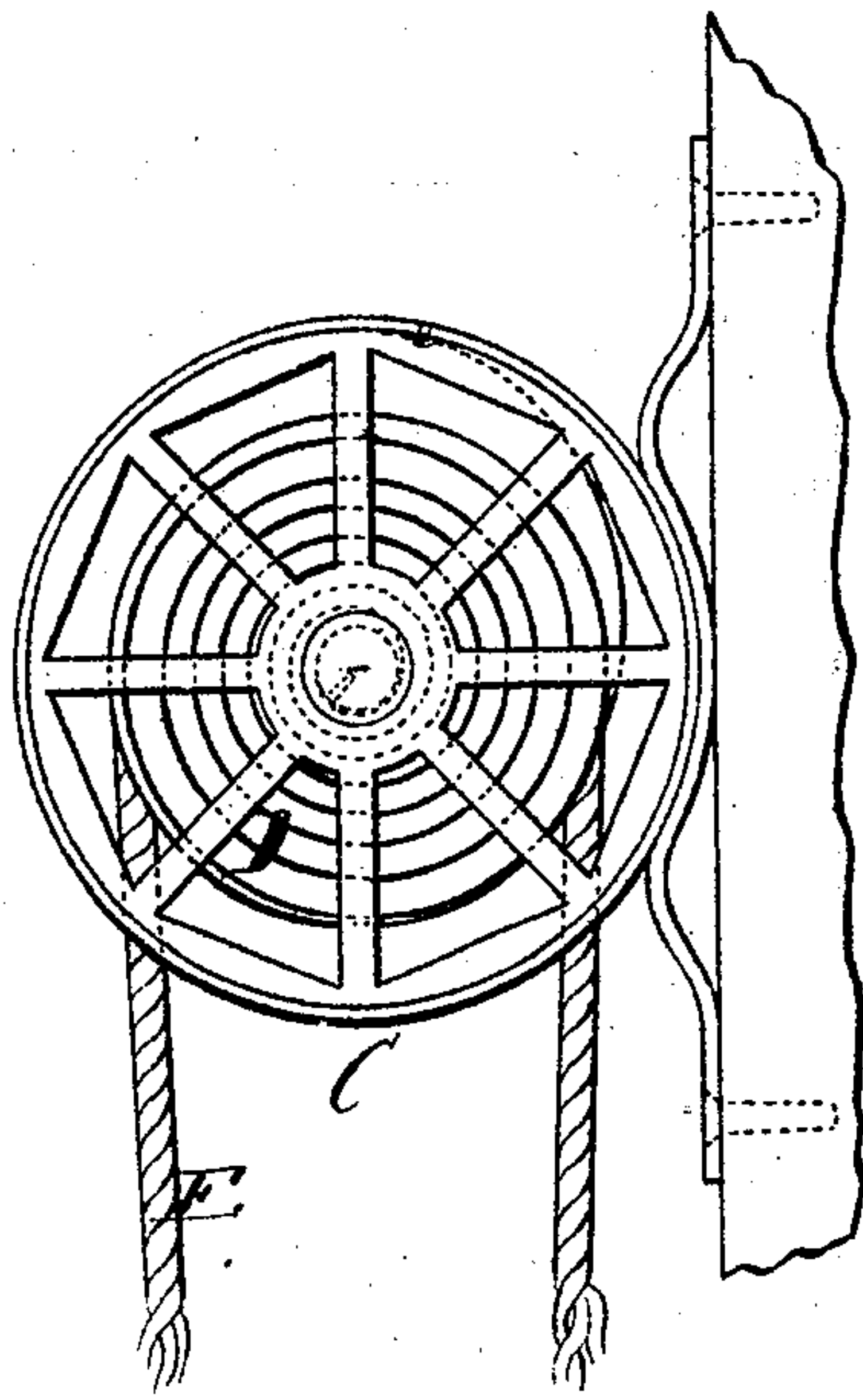


Fig. 2.

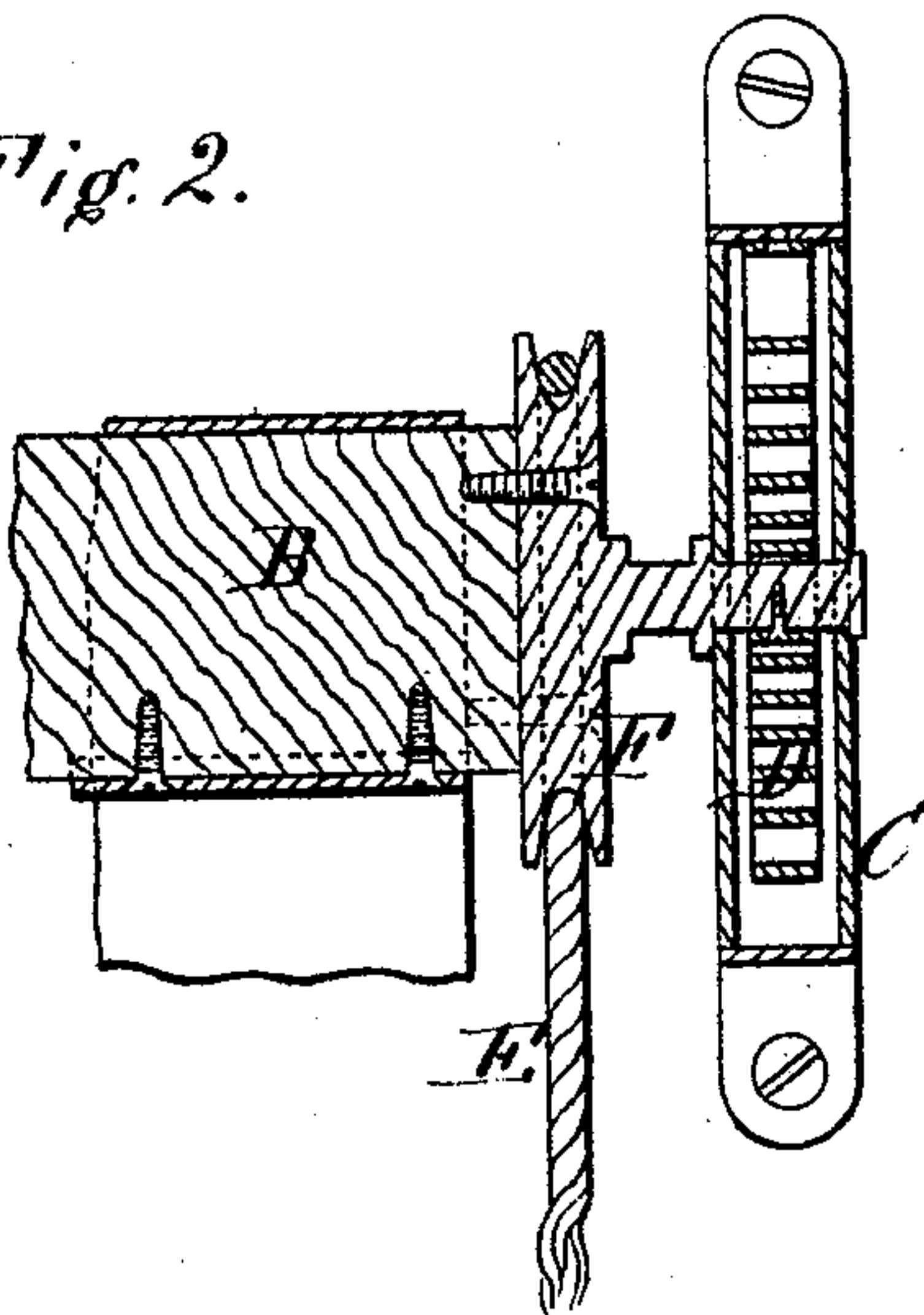
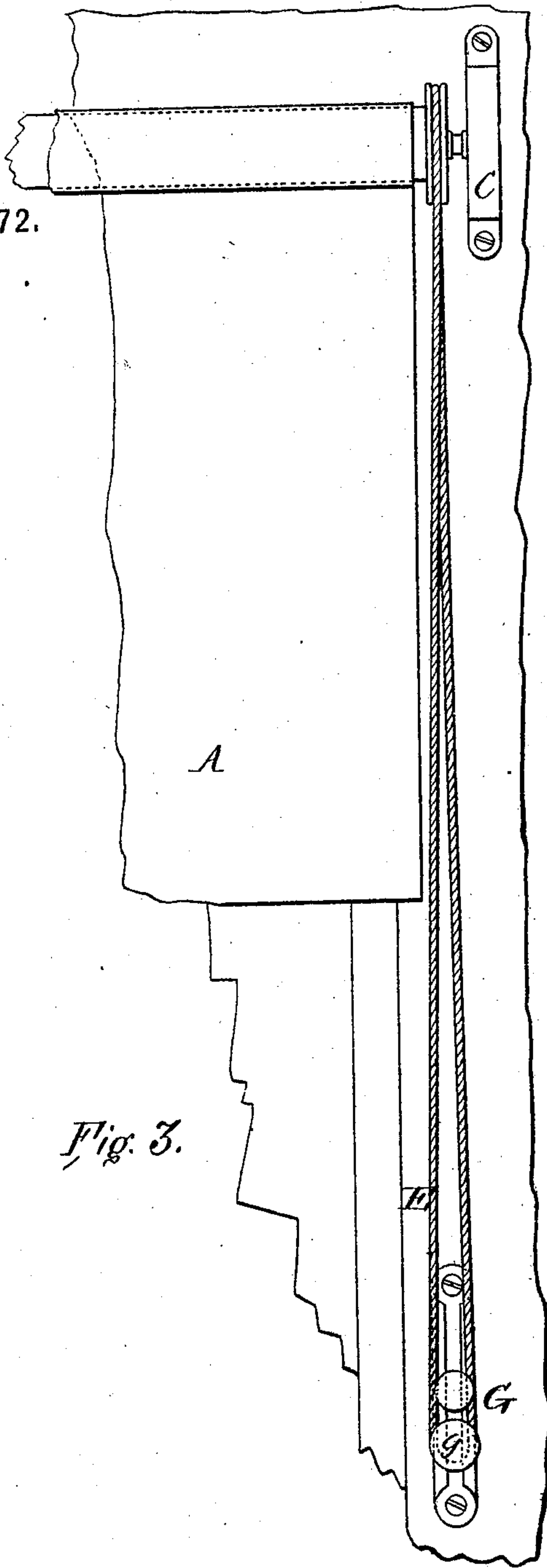


Fig. 3.



Witnesses.

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# UNITED STATES PATENT OFFICE.

HENRY H. PHILLIPS, OF BUFFALO, NEW YORK.

## IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. 124,153, dated February 27, 1872.

*To all whom it may concern:*

Be it known that I, HENRY H. PHILLIPS, of Buffalo, in the county of Erie and State of New York, have invented a new and valuable Improvement in Curtain-Fixtures; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of an end view of the spring-barrel. Fig. 2 is a sectional view of the same. Fig. 3 is a front view.

My invention has relation to curtain-fixtures designed for use in the manipulation of heavy curtains of store windows. The curtain to which my invention applies has connected with the roller on which it is wound a coiled spring, which is compressed as the curtain is unrolled and pulled down, and which has a tendency to roll up the curtain when the adjusting devices are released. My invention consists in the combination with said coiled spring, when properly arranged, of the ordinary curtain-fixture, consisting of a grooved wheel attached to the curtain-roller, an endless cord, and a cord-holder and tightener. The object of my invention is to provide for the perfect control of heavy window-shades, the raising of which is aided by means of a coiled spring. The endless cord is used in this relation as a means of adjustment, so that the curtain may be held at any point to which it is drawn or raised, and is also used as a means for lowering the

curtain and controlling the action of the spring in rolling the curtain up.

In the accompanying drawing, A represents the curtain or shade; B, the roller; C a hollow drum or box containing a coiled spring, D, which is secured to the roller-shaft *d*, and is tightened as the curtain is unrolled. E represents an endless cord passing over a grooved pulley, F, attached in the usual manner to the roller B. G designates the ordinary cord-tightener, having a knob, *g*, to hold the cord. The cord, when applied, is tightened to a sufficient degree as to overcome the force of the spring, and prevent the curtain being rolled up when it has been adjusted to any desired point, unless the cord be further manipulated. The spring is just barely governed by the cord; hence a very slight force on the cord is needed. By the loosening of the tension on the cord the roller may be allowed to roll up as swiftly as may be desired.

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

The combination of the roller B, pulley F, endless cord E, and cord-tightener G with the coiled spring D incased within the hollow drum C, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HENRY H. PHILLIPS.

Witnesses:

F. B. CURTIS,  
D. D. KANE.