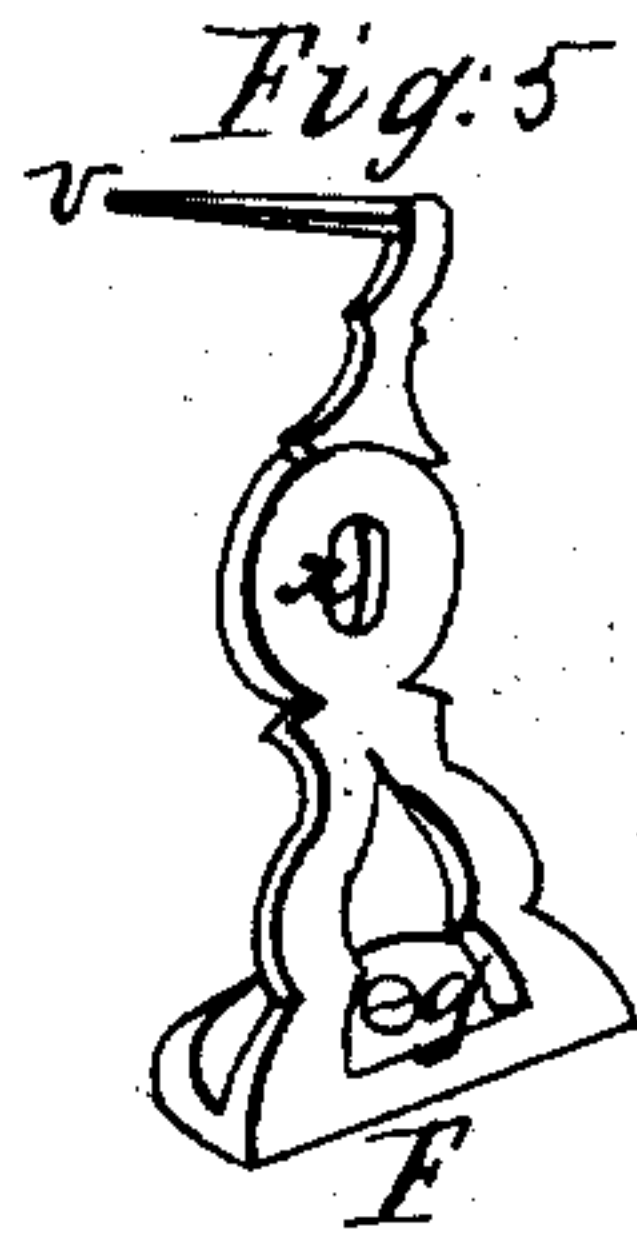
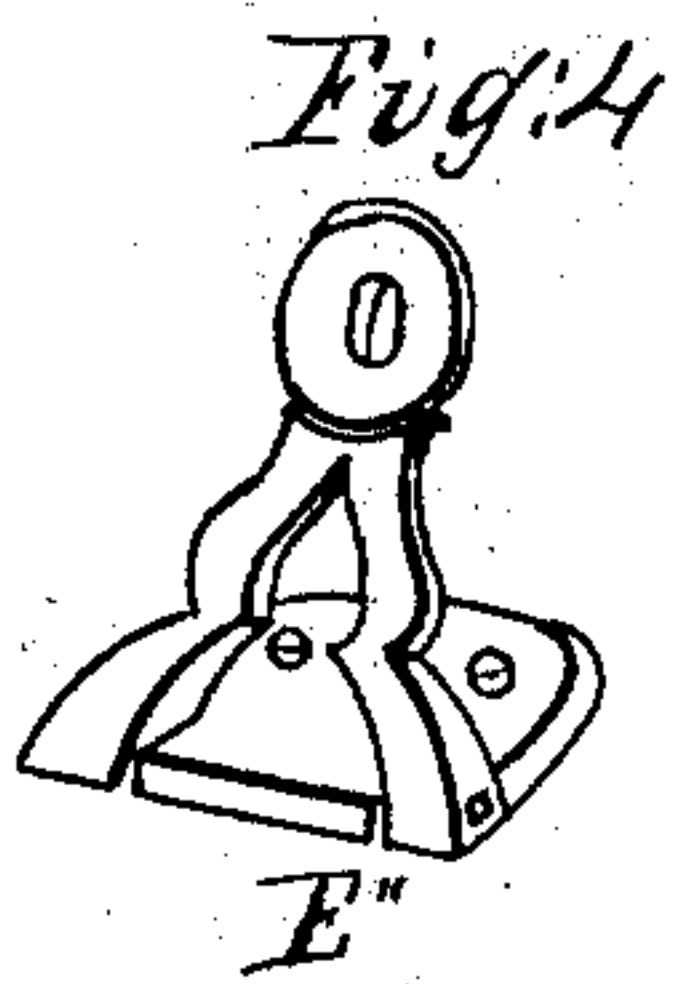
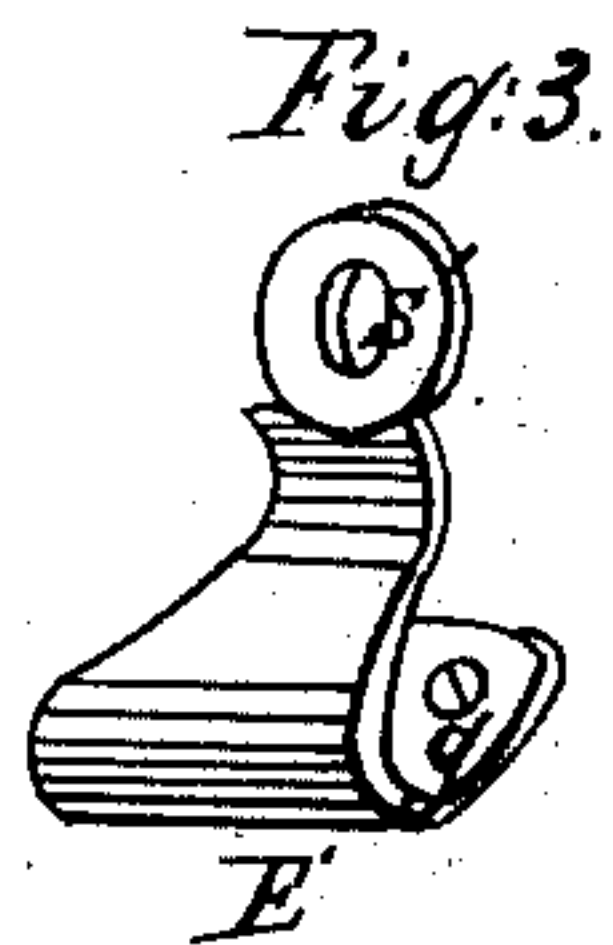
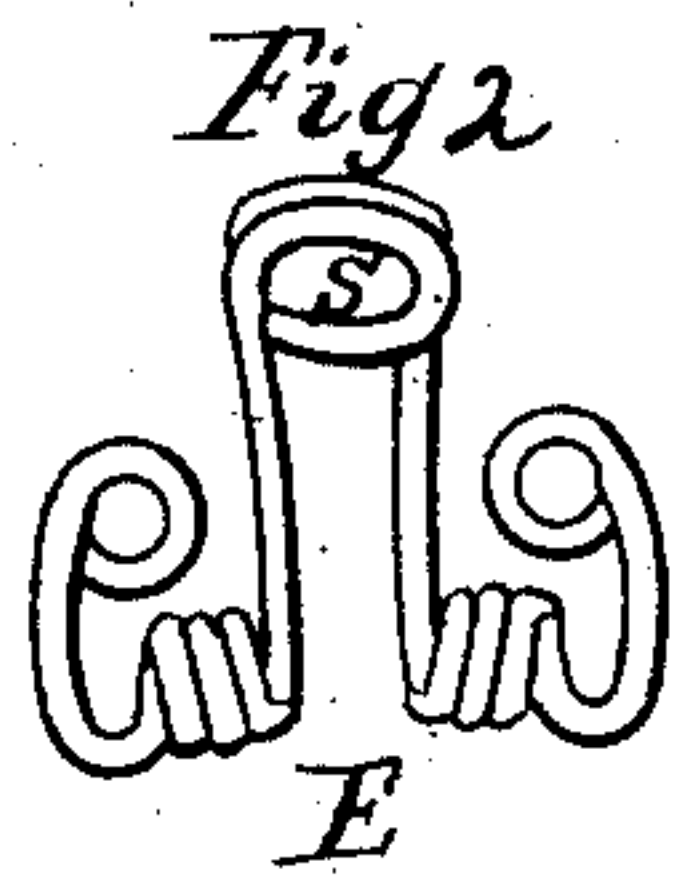
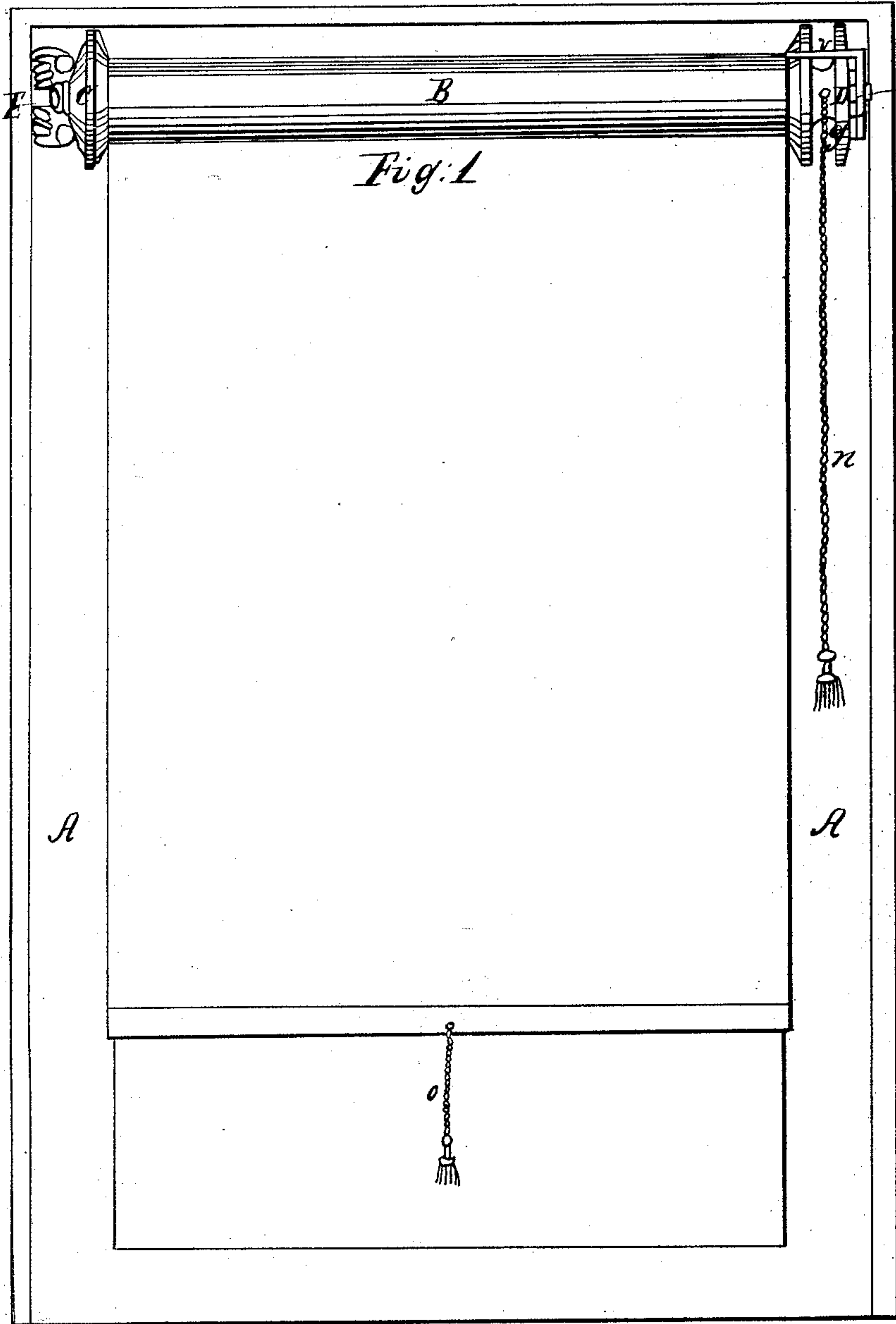


*J. F. Hall,*

*Curtain Fixture.*

*N<sup>o</sup> 28,363.*

*Patented May 22, 1860.*



*Witnesses*

*Wm. E. Hewes  
Jm. J. Willard*

*Inventor*

*Joseph F. Hall*

# UNITED STATES PATENT OFFICE.

JOSEPH F. HALL, OF BANGOR, MAINE.

## CURTAIN-FIXTURE.

Specification of Letters Patent No. 28,363, dated May 22, 1860.

*To all whom it may concern:*

Be it known that I, JOSEPH F. HALL, of Bangor, in the county of Penobscot and State of Maine, have invented a new and  
5 Improved Apparatus for Raising and Lowering and Otherwise Controlling the Movement of Window-Curtains; and I do hereby declare that the following is a full and exact description of the same, reference being  
10 had to the accompanying drawing, and references thereon, which constitute a part of the description.

The nature of the invention consists in the combination of the bracket and spring in  
15 one piece of mechanism. The bracket while sustaining one end of the curtain roller at the same time acts as a spring pressing the roller against the bracket at the opposite end of the roller thus creating a friction  
20 bearing whereby the curtain is sustained in any desired position.

In the accompanying drawings Figure 1 is a front view of a window casing with the curtain, cord, tassel and fixtures complete.  
25 Fig. 2 is a perspective end view of the spring bracket. Fig. 3 is the pulley bracket.

The same letters refer to the same parts in all of the figures.

That others skilled in the art to make and  
30 use my invention, may make and use the same, it is described and used as follows.

Prepare a wooden roller of any required length, insert and fasten into one end the pulley D on the reverse end affix the cap C  
35 (the same being made with a cavity or socket fitting tightly on the end of the roller.) The pulley and cap are generally made of harder wood than the body of the roller and sometimes of metal. The curtain is attached  
40 to the roller in the usual way. The frame (A A, Fig. 1), shows the window casing to which the brackets (E F) are screwed by screws (g). It is the use and adaptation of this spring bracket E that constitutes the  
45 prominent feature of the invention claimed. It is the bracket performing the double

functions of spring and bracket, as a bracket attaching the roller to the window casing and as a spring sustaining the curtain at any point of elevation desired. Having made  
50 the brackets on each side of the window fast in their places put the pintle of cap C into the socket (s) of bracket E, then press the bracket outward far enough to enter the pintle of the pulley D in the socket (x) of  
55 bracket F against which it is pressed by spring bracket E and the curtain is in condition to be worked. The curtain is drawn down by cord and tassel o and raised by cord and tassel n.  
60

The bracket E, Figs. 1, 2, is made of spring wire. Take a piece of requisite length and bend it around a suitable sized pin two or three times, thus forming the socket (s), then at a sufficient distance from the socket  
65 to give the desired height to the bracket bend each of the two parts of the wire several times around a small arbor, thus forming a coil spring. The ends are then turned in so as to form eyes for the screws by  
70 which the bracket is fastened to the window casing. An inclination forward or inward is given to the projecting part of the bracket (E) which gives a pressure upon the roller when that part is brought to a position at  
75 (or nearly at) right angles to the basis of the bracket.

The bracket F, Fig. 5, is usually made of cast metal having a projecting arm (v) which reaches across the front of the pulley  
80 D, holding the cord n within the groove in the pulley.

Having fully described the nature of my invention what I claim as my invention and desire to secure by Letters Patent is—  
85

The spring bracket E, substantially as described for the purposes set forth.

JOSEPH F. HALL.

Witnesses:

WM. E. HEWES,  
WM. T. HILLIARD.