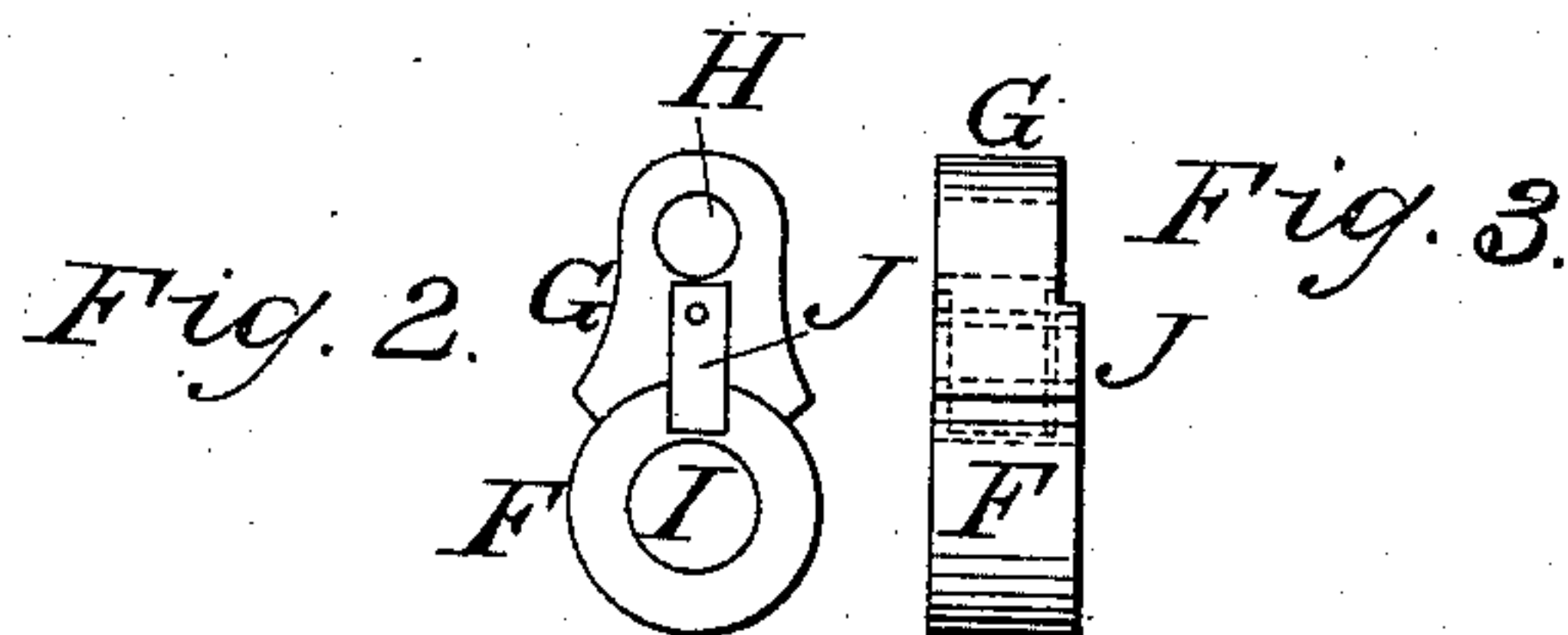
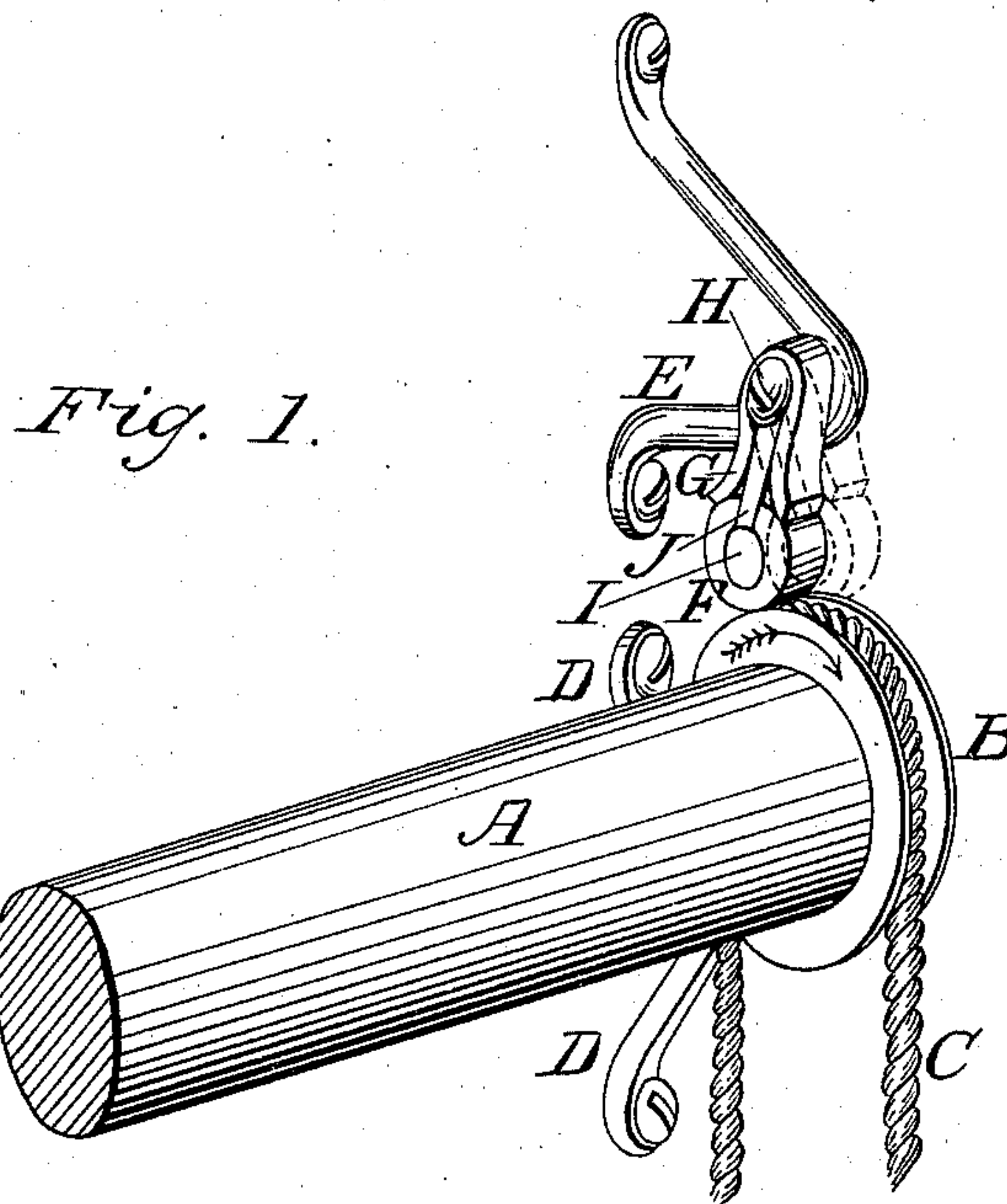


R. WANGEMAN.  
Stop for Curtain Rollers.

No. 98,532.

Patented Jan'y 4, 1870.



Witnesses:  
*E. A. West.*  
*W. Bond.*

Inventor:  
*Rudolph Wangeman*

# United States Patent Office.

RUDOLPH WANGEMAN, OF CHICAGO, ILLINOIS.

*Letters Patent No. 98,532, dated January 4, 1870.*

## IMPROVED STOP FOR CURTAIN-ROLLERS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern :*

Be it known that I, RUDOLPH WANGEMAN, of the city of Chicago, in the county of Cook, and State of Illinois, have invented a certain new and improved Stop for Curtain-Rollers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view, representing a section of the curtain-roller, with the stop applied ;

Figure 2, a side view of the stop detached; and

Figure 3, an edge view.

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

The nature and object of my invention consist in providing a stop for curtain-rollers, so constructed and applied that it will operate to hold the curtain in any position, and without interfering with its operation, as hereinafter more fully described.

To enable others skilled in the art to make and use my invention, I will describe its construction and operation.

In the drawings—

A represents a section of an ordinary curtain-roller, to which the curtain is attached, in any of the usual methods.

The wheel or guide B, cord C, and bracket D, are of the usual or of any desired construction, as I design attaching my stop to any and all constructions of rollers, and where the wheel B is omitted, it can be applied directly to the roller A.

The bracket E is also made of any desired form, and to this I attach my stop. This stop I make as shown at fig. 2.

The part G is made of wood or metal, as may be desired, and is pivoted to the bracket at H, by a screw or pin.

The part F is made of rubber, and in the form shown, is made of rubber tubing, with a wooden or other plug, I, driven in its centre. It is secured to

the part G by a strap, J, which passes through the rubber, and has its end secured to the part G, as shown.

This strap J may be replaced by arms, and the part F may pivoted to these arms, and have an independent rotary motion if desired.

I apply it by placing it directly over the roller, and suspend it so that when a movement is given to the curtain, the stop will press upon it, and pass over to the other side, so that the movement will continue without any interference from the stop.

The yielding of the rubber is sufficient to allow the stop to pass the highest point of the roller, and also sufficient to hold the curtain in any position, from which position it can only be moved by the application of a little force, either to the curtain or to the cords.

It will be seen that this stop is operated by the curtain or its fixtures. It does not require any cords, ratchets, or other device to operate it, and works in either direction.

I deem it advisable to make the part I of wood or similar material, so that if the stop is too tight or too loose, it can be properly adjusted by cutting away a portion of this plug I, or by removing it and inserting another of proper size.

Instead of two brackets, one to support the curtain-roller, the other to support the stop, as shown, a single bracket may be so constructed as to support both.

Having thus described my invention,

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

The stop F G I J, constructed as herein described, and pivoted to the bracket E, so as to be operated from either side of the curtain-roller, by the curtain-fixtures, as and for the purpose specified.

RUDOLPH WANGEMAN.

Witnesses:

E. A. WEST,

O. W. BOND.