

No. 786,087.

PATENTED MAR. 28, 1905.

F. L. BENEDICT.
STOP ATTACHMENT FOR SHADES.
APPLICATION FILED OCT. 21, 1903.

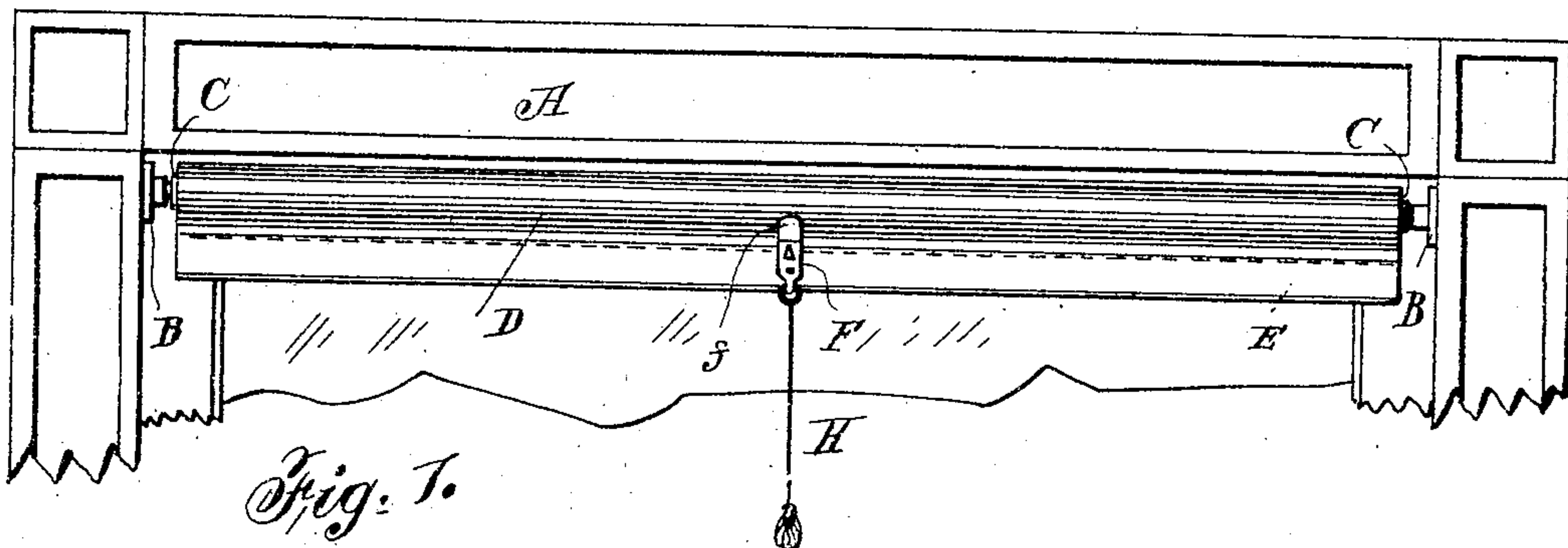


Fig. 1.

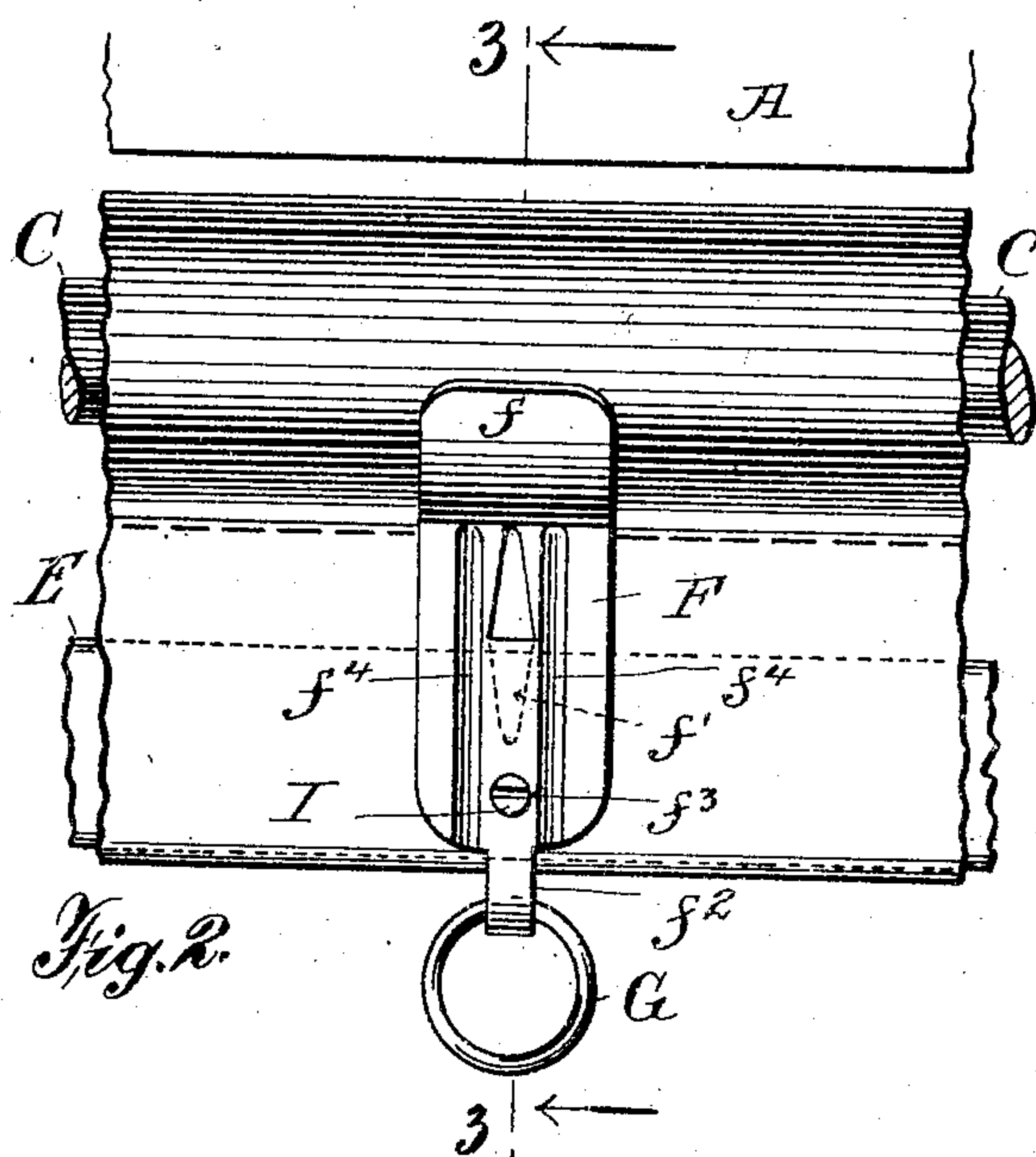


Fig. 2.

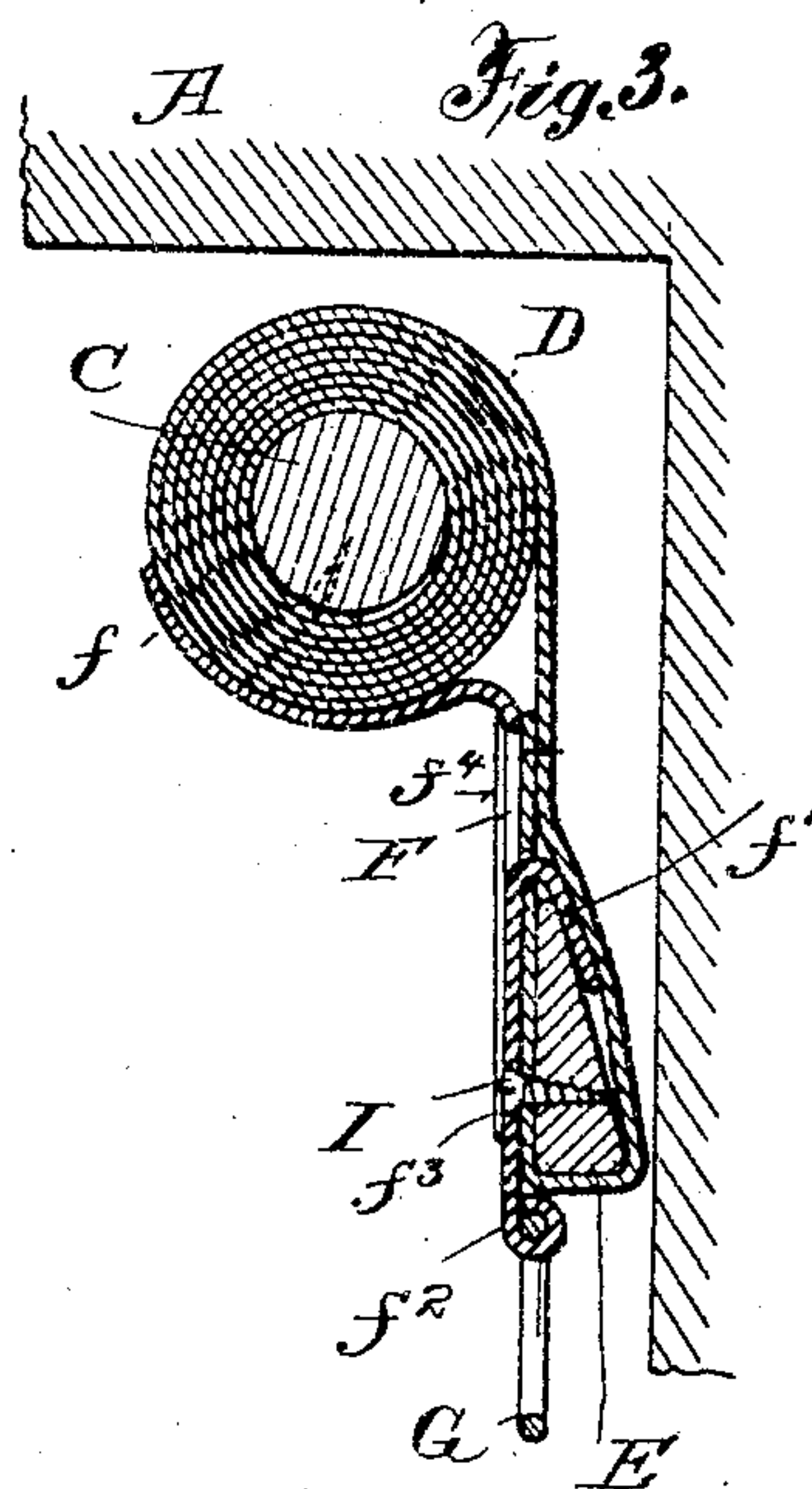


Fig. 3.

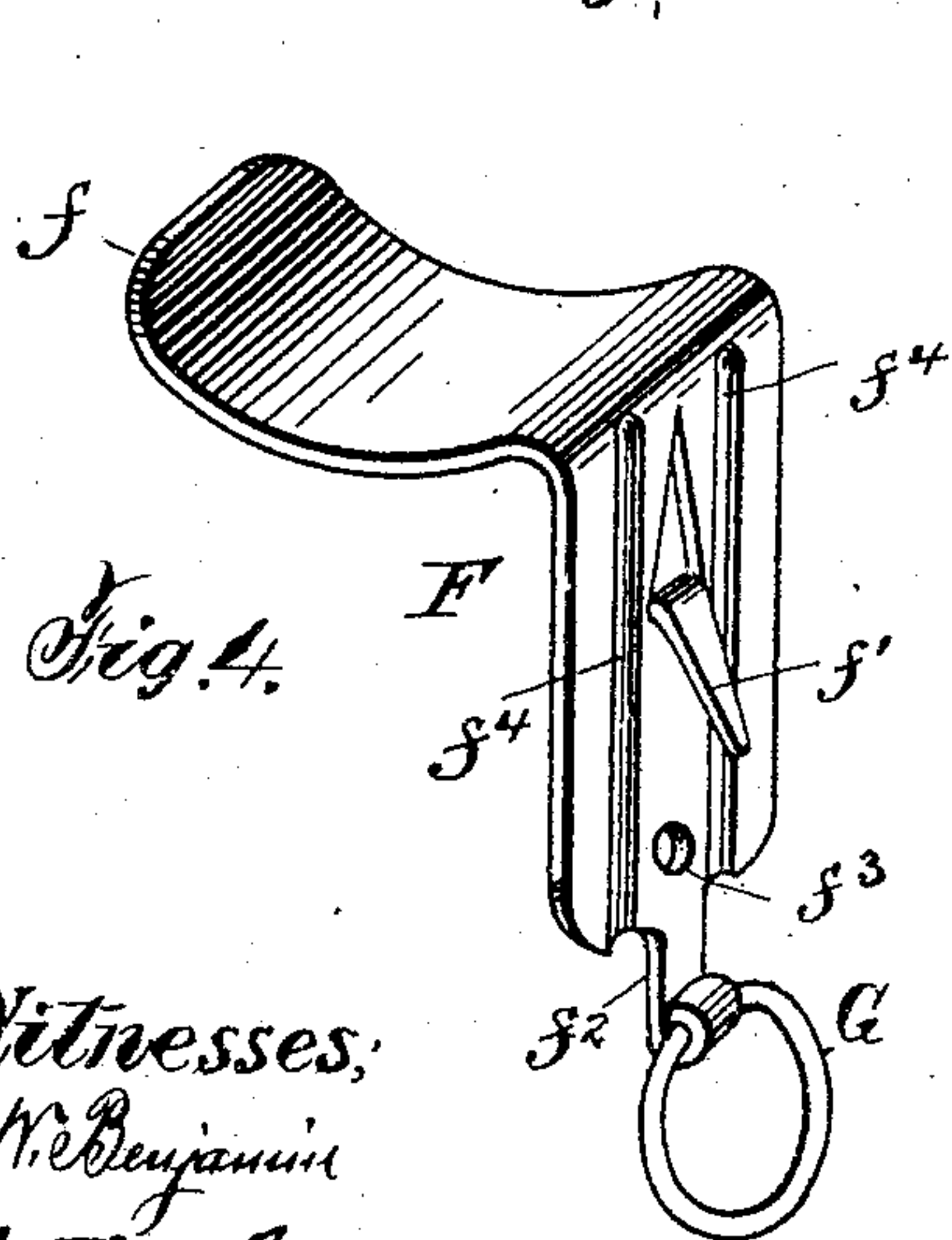


Fig. 4.

Fig. 5.

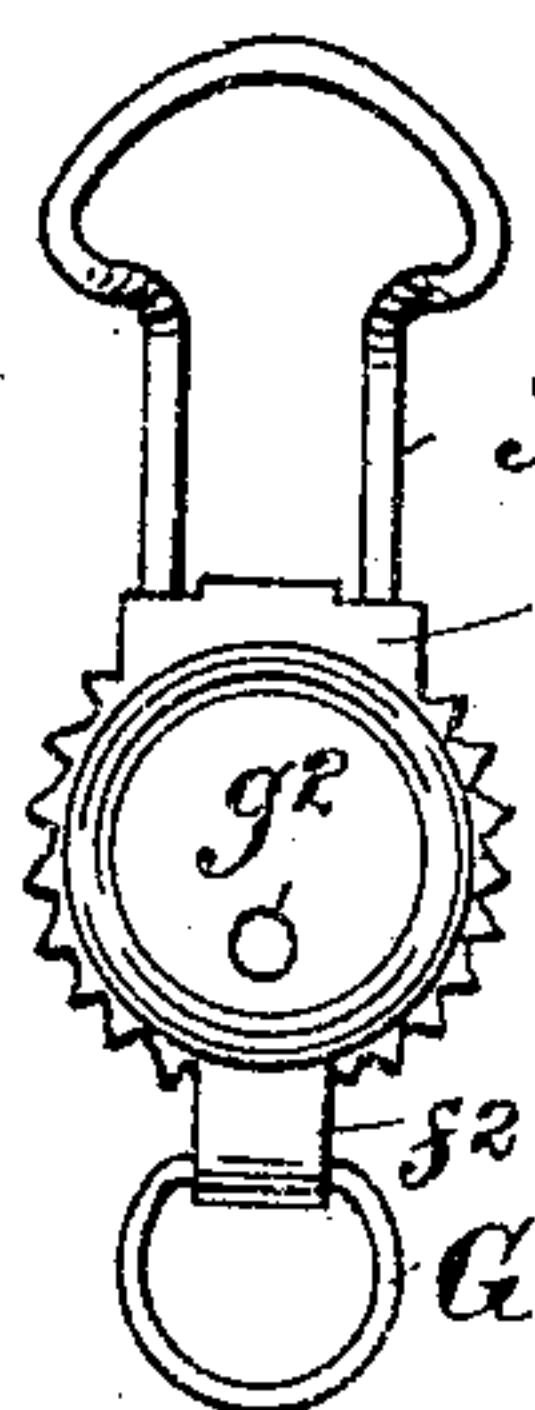


Fig. 6.

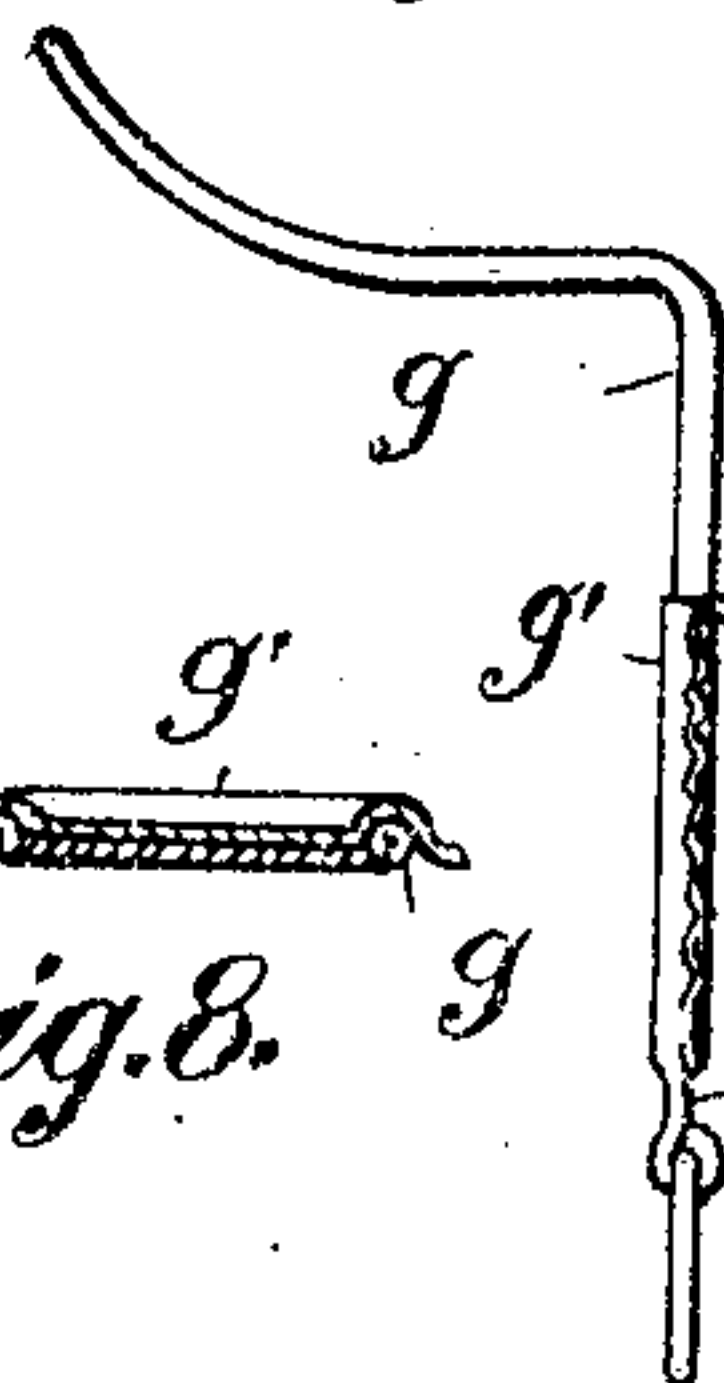
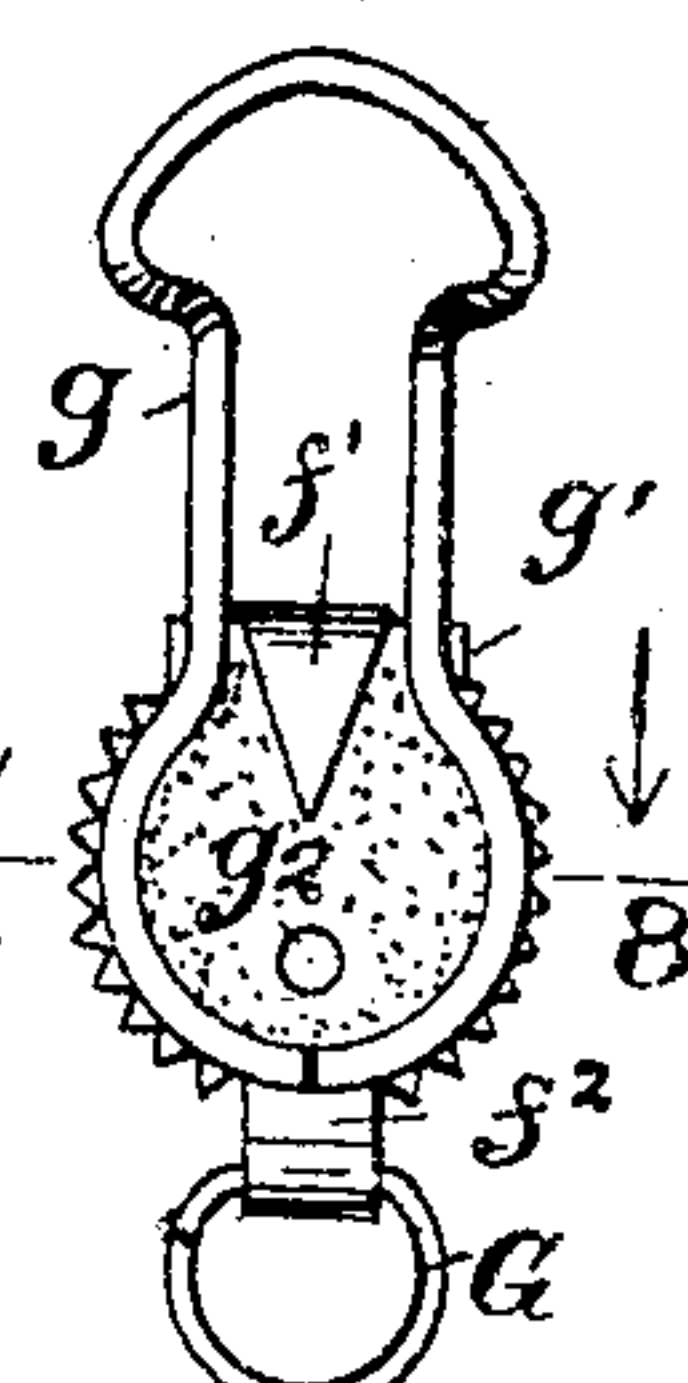


Fig. 8.

Fig. 7.



Witnesses:
C. H. Benjamin
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Inventor
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by J. R. Brown
his atty

UNITED STATES PATENT OFFICE.

FRED LEE BENEDICT, OF JERSEY CITY, NEW JERSEY, ASSIGNOR OF ONE-HALF TO JAMES HENRY CORNELL, OF JERSEY CITY, NEW JERSEY; HARRIET L. CORNELL ADMINISTRATRIX OF SAID JAMES HENRY CORNELL, DECEASED.

STOP ATTACHMENT FOR SHADES.

SPECIFICATION forming part of Letters Patent No. 786,087, dated March 28, 1905.

Application filed October 21, 1903. Serial No. 177,939.

To all whom it may concern:

Be it known that I, FRED LEE BENEDICT, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented a certain new and useful Improvement in Stop Attachments for Shades, of which the following is a specification.

I will first describe the improvement in detail and then point out the novel features in the claims.

In the accompanying drawings, Figure 1 is a view in front elevation of a shade, showing a stop attachment embodying my improvement performing its function. Fig. 2 is an enlarged similar view of a portion of the same. Fig. 3 is a sectional view taken on the plane of the line 3 3, Fig. 2. Fig. 4 is a perspective view of a stop attachment embodying my improvement. Fig. 5 is a view in front elevation of a stop attachment of modified form embodying my improvement. Fig. 6 is a side view of the form of attachment shown in Fig. 5. Fig. 7 is a view in rear elevation of the form of attachment shown in Fig. 5; and Fig. 8 is a sectional view taken on the plane of the lines 8 8, Fig. 7.

Similar letters of reference designate corresponding parts in all the figures.

A designates the upper portion of a window-frame, and B fixtures for holding a window-shade.

C designates a spring window-shade roller, and D a shade attached to said roller.

E is the stick commonly used at the bottom of a window-shade.

F designates an attachment preferably made of metal. At its upper end this attachment is shown as formed with a forward extension f , disposed away from the window and is preferably curved so as to conform to the shade when the latter is wound around the roller. In Figs. 1 to 4, inclusive, a point f' is shown as cut out and bent over, and in Fig. 3 this

point f' is shown as lying over the upper portion of the stick E, the object being to aid in fastening the device securely to the stick.

The attachment F is provided at its lower end with a projecting lug f^2 , and a ring G may be inserted in this lug f^2 , to which ring G a curtain-cord H may be fastened.

f^3 is a hole through which a screw I may be passed to enable the attachment F to be screwed to the stick E.

The attachment F is formed of sheet metal and may be provided with corrugations f^4 for ornamentation and to give added strength to that part of the attachment which is fastened to the stick E.

In Figs. 5 to 8, inclusive, I have shown the attachment as made of a piece of wire g . This piece of wire g will have the same general conformation at its upper end as the portion f . A sheet-metal piece g' is shown as soldered or otherwise secured to the wire g . The engaging point f' projects from said piece g' . The projecting lug f^2 is shown at the lower end of the piece g' . I have shown a hole g^2 in the piece g' , through which hole a screw may be passed to fasten the attachment to the stick E.

The attachment being in place on the shade, the shade may be permitted to roll around the roller C, and when the upper end or extension f of the attachment strikes against the under side of that part of the shade which has been wound around the roller the further progress of the shade around the roller is stopped. In this way I provide a simple and effective means for preventing the lower end of a window-shade flying around a roller.

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

1. A stop attachment for shades, comprising an attaching portion adapted for connection with the shade-stick and an outwardly-disposed stop extension designed for contact with the shade when the latter is rolled and curved

to conform substantially to the arc of the same, whereby the lower end of the shade is caused to hang substantially vertical.

2. The combination with a spring-actuated
5 shade, of a stop attachment for the same comprising a sheet-metal plate having punched therefrom the stick-engaging tooth *f'* and below the same having a screw-receiving hole,

and at its upper end laterally bent at an angle to form a stop extension, and the screw passed 10 through the hole and into the stick.

FRED LEE BENEDICT.

Witnesses:

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