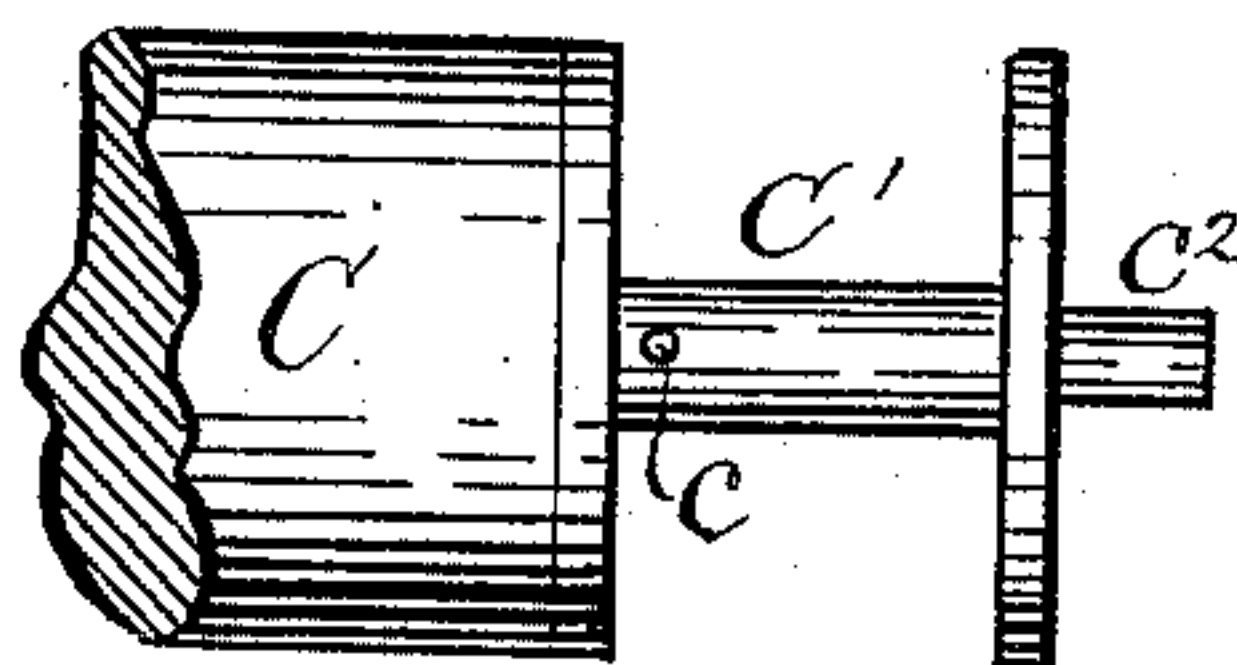
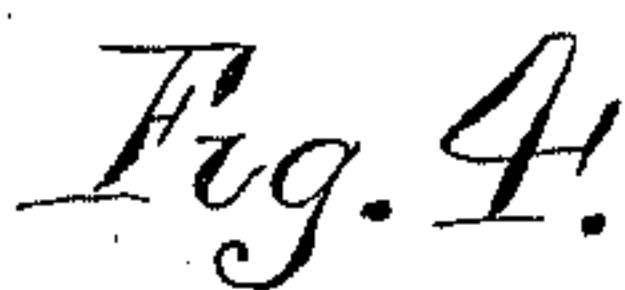
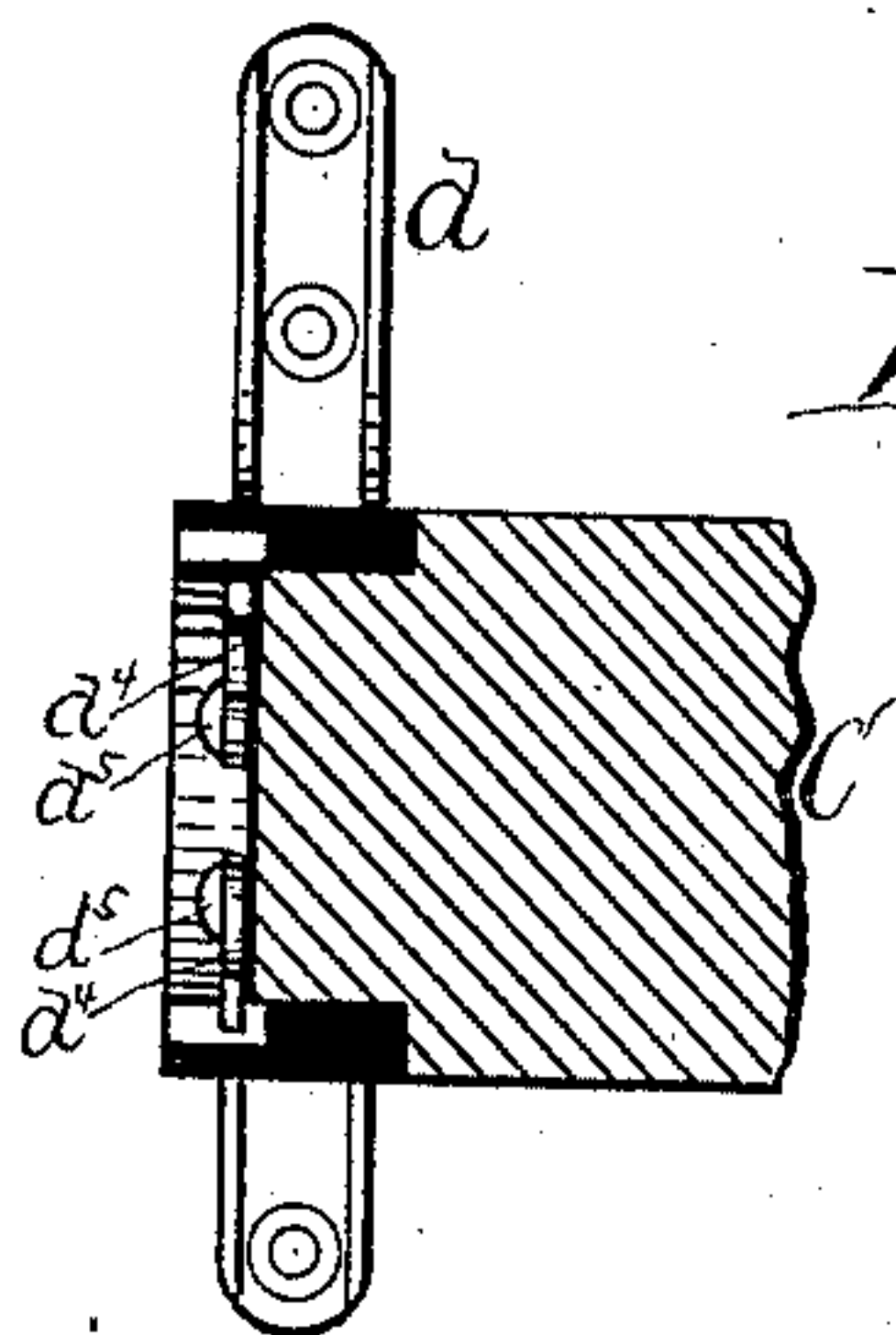
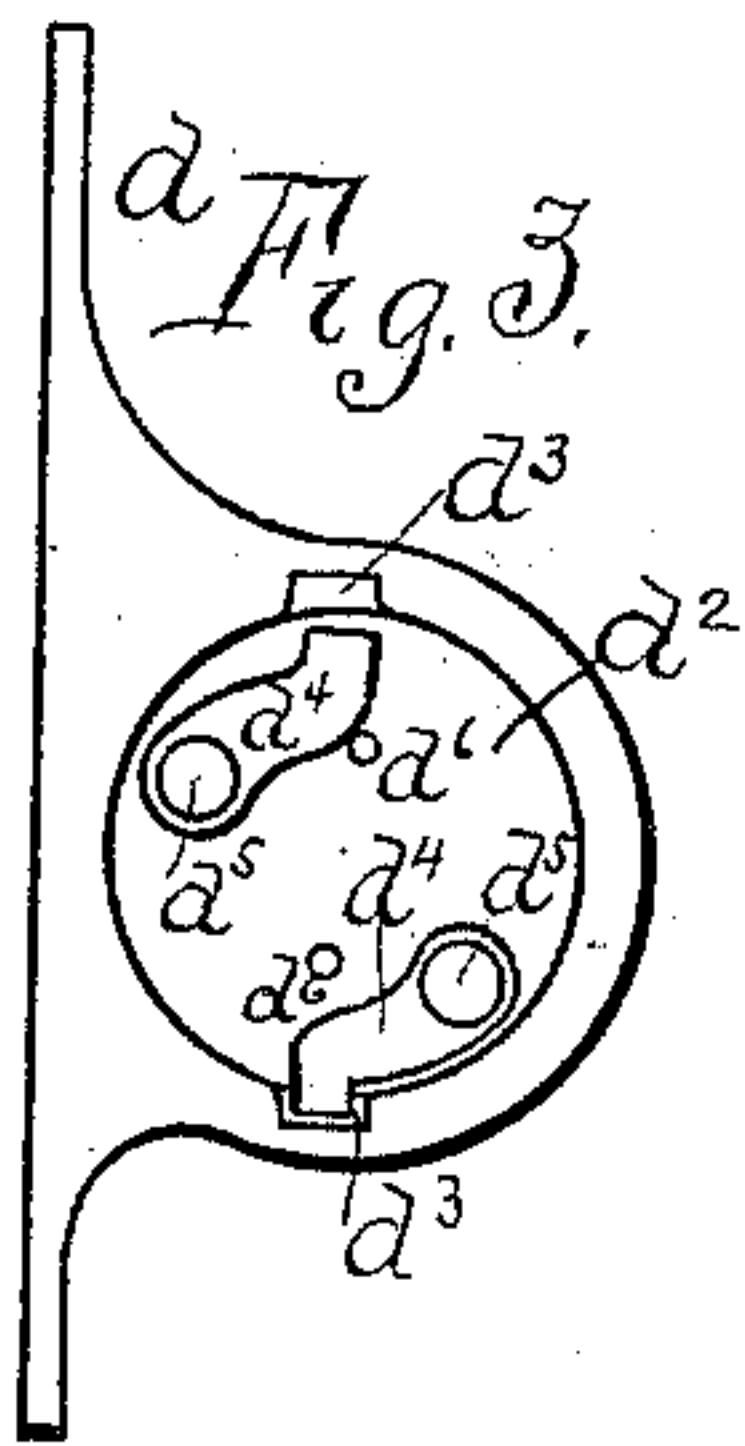
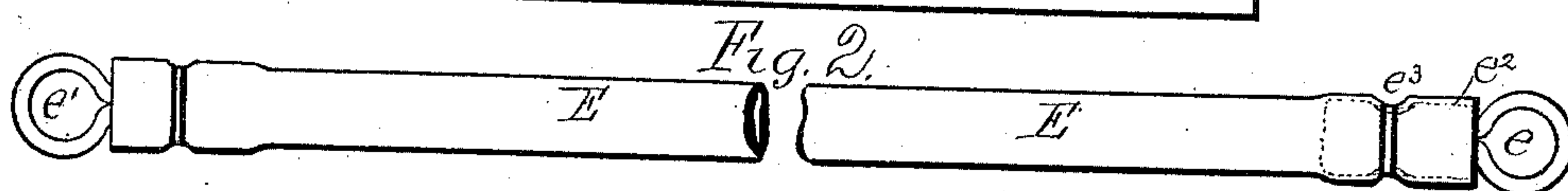
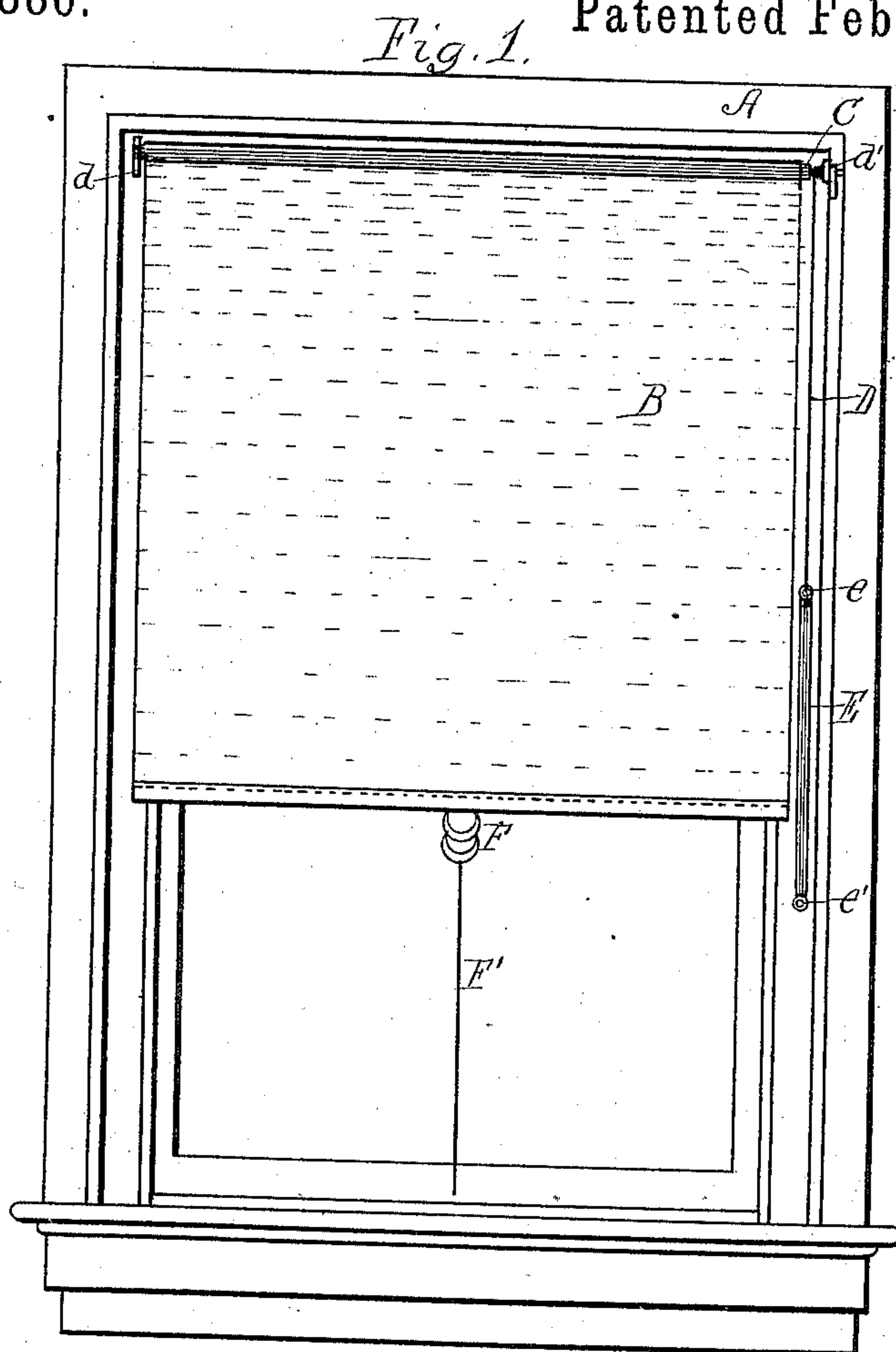


(No Model.)

J. M. NICKEL.
CURTAIN FIXTURE.

No. 312,886.

Patented Feb. 24, 1885.



Witnesses
J. H. Saul
Robt White

Inventor
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UNITED STATES PATENT OFFICE.

JULIUS M. NICKEL, OF BALTIMORE, MARYLAND.

CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 312,886, dated February 24, 1885.

Application filed August 9, 1884. (No model.)

To all whom it may concern:

Be it known that I, JULIUS M. NICKEL, of Baltimore city, Maryland, have invented certain new and useful Improvements in Curtain-
5 Fixtures, of which the following is a specification, reference being had to the accompanying drawings, forming part hereof, in which—

Figure 1 is a view of a curtain with my improved fixture attached. Fig. 2 is a view of
10 the spring detached. Fig. 3 is a view of the stop, and Fig. 4 is a view of the roller.

Like letters mark the same parts in all the figures.

My invention relates to curtain-fixtures; and
15 it consists in the improved construction, arrangement, and combination of parts, which will be first fully described, and afterward specifically pointed out in the claims.

Referring to the drawings by letter, A is
20 the frame of the window; B, the curtain; C, the roll; D, the cord, and E the spring.

The roll C is pivoted in the ordinary brackets, d d' , and is provided with the stop or ratchet device common to spring-roller curtains. The bracket d is hollowed out at d^2 ,
25 and has a notch, d^3 , to alternately receive pawls d^4 , pivoted at d^5 , and prevented from moving too far by pins or stops d^6 .

Instead of putting a spring in the roller, I
30 mount a reel, C', at one end of it, and at c secure a cord, D, the lower end of which I fasten

to a spring, E—in this instance a rubber tube carrying at each end a ring, the ring e engaging the cord and the ring e' the frame of the
window.

The stop may be released by drawing the
curtain down, when the spring will unwind from the reel by the action of the spring, and thus turn the roll and wind up the curtain. The
curtain may then be drawn down, thus wind-
40 ing up the cord, and whenever the curtain is stopped in either its upward or downward course it will be held by the ratchet device.

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

1. The combination, with a curtain and a
45 roller provided with a retaining-catch, of a reel on the roller, a cord attached to the reel, and a spring connecting the cord to the window-frame, as set forth.

2. The combination of roller C, curtain A,
50 stop device, cord D, and rubber tube E, as and for the purpose set forth.

3. The combination, with curtain A, of roll
C, reel C', stop device, cord D, and rubber
55 tube E, having rings e e' , as set forth.

In testimony whereof I have hereunto set
my hand in the presence of two witnesses.

JULIUS M. NICKEL.

Witnesses:

S. BRASHEARS,
MAX STRAUS.