

No. 640,604.

Patented Jan. 2, 1900.

A. S. TRAGETHON.
SHADE ROLLER.

(Application filed Oct. 5, 1899.)

(No Model.)

2 Sheets—Sheet 1.

FIG. 1

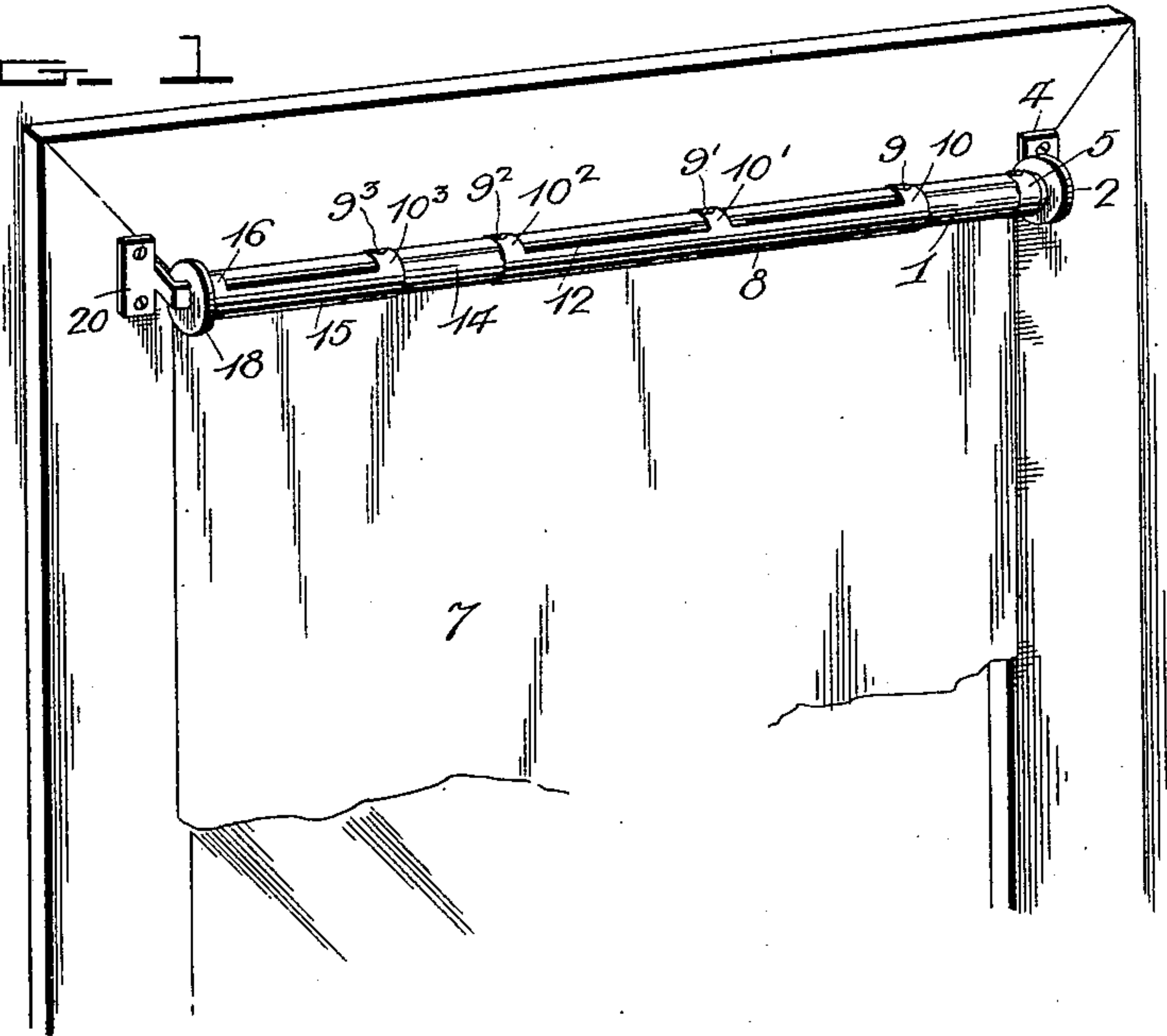


FIG. 2

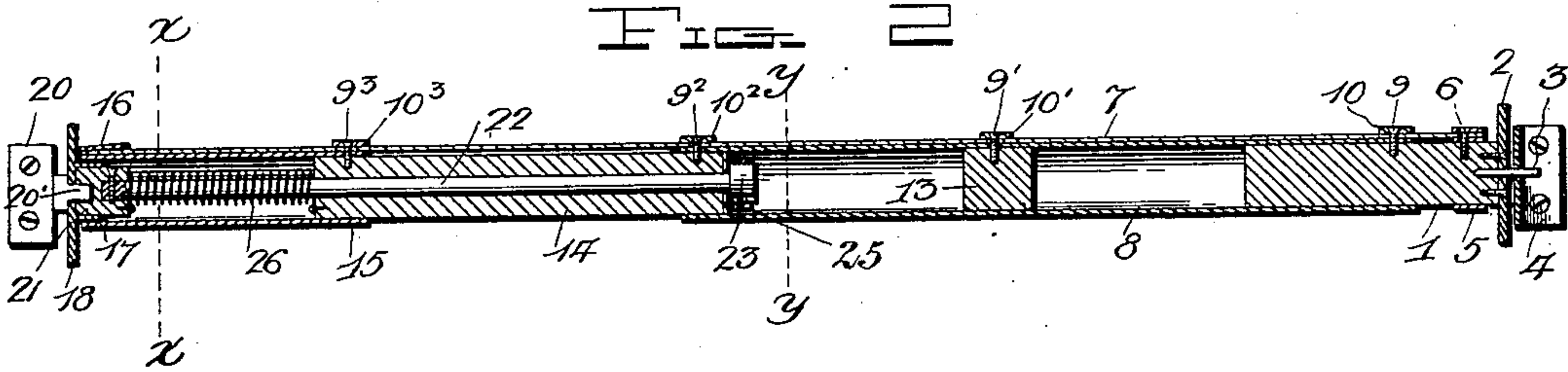
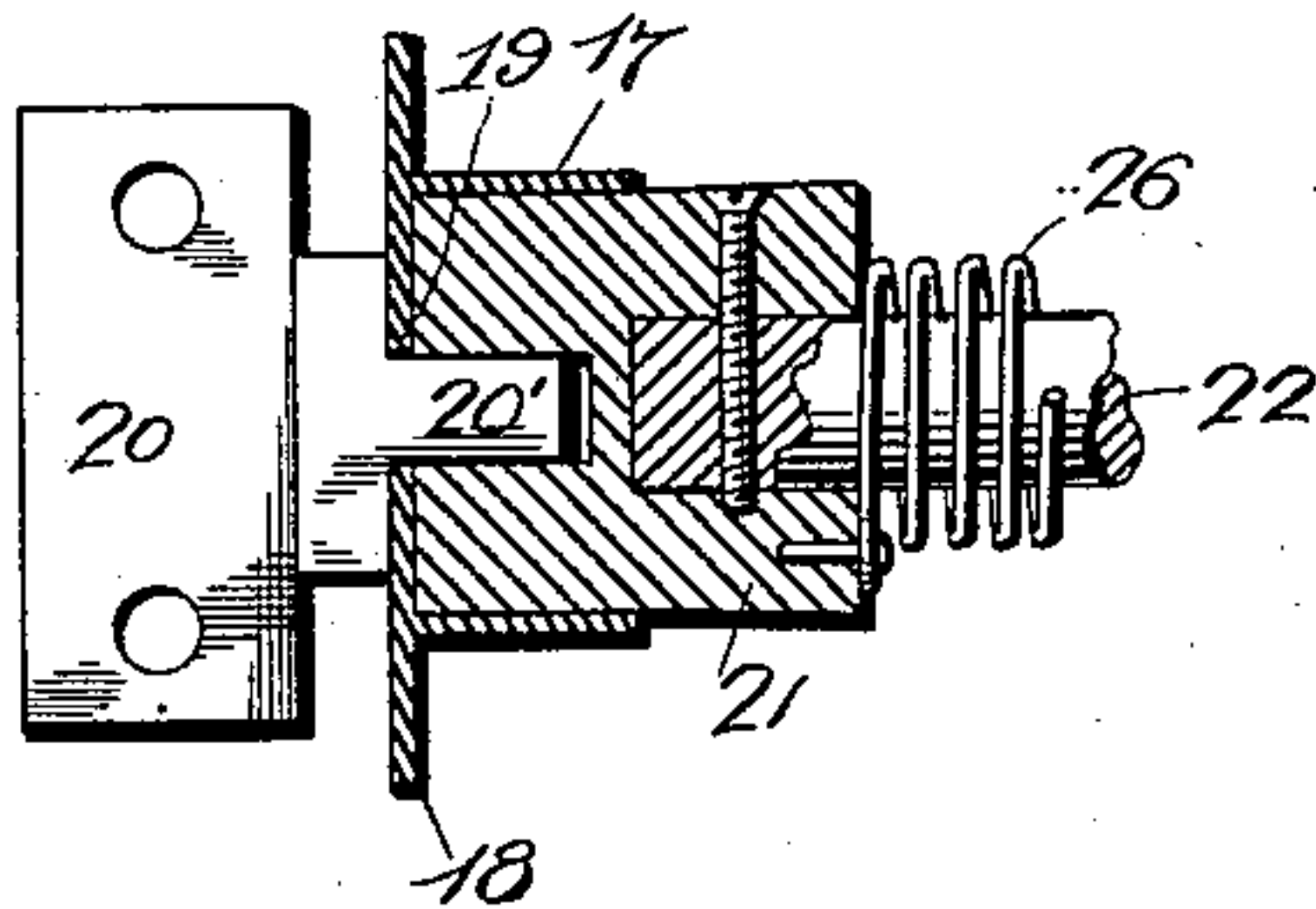


FIG. 3



Witnesses
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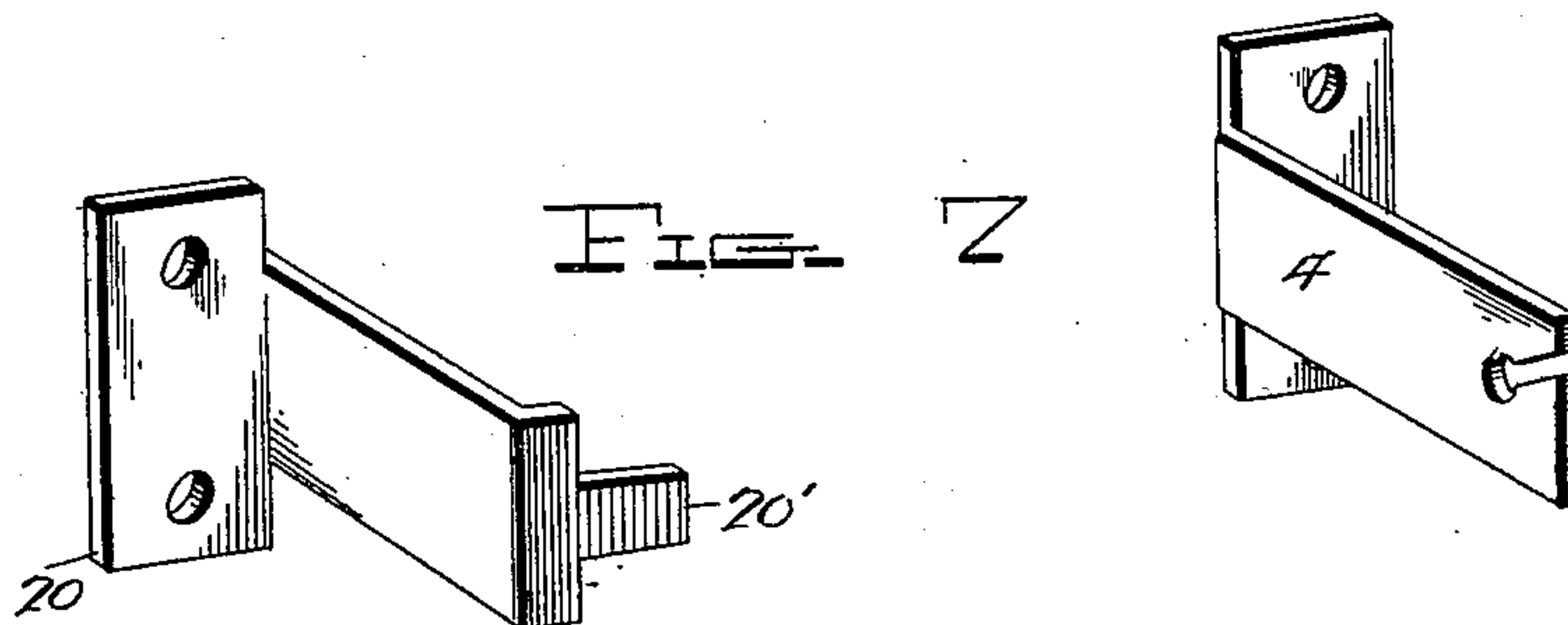
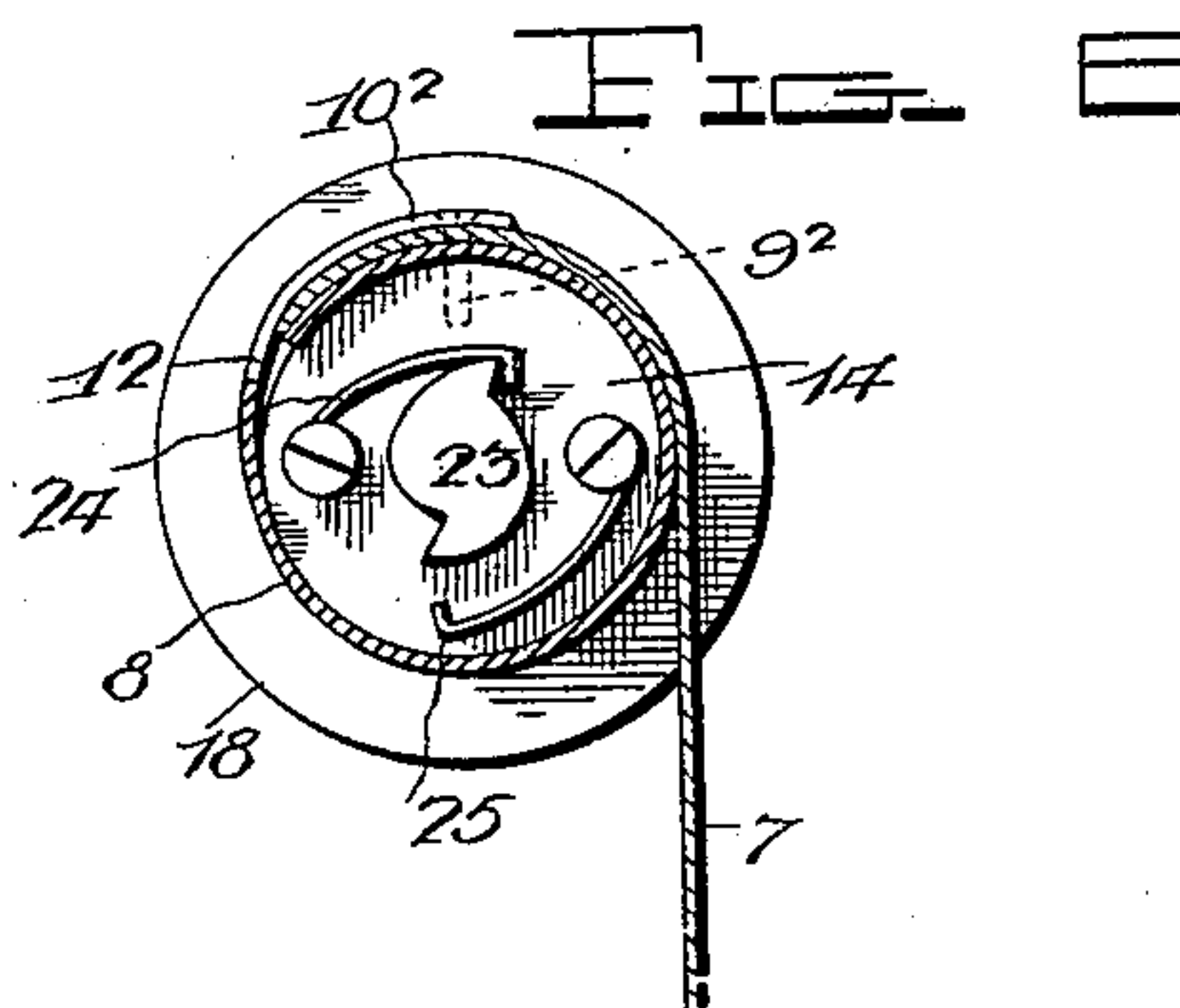
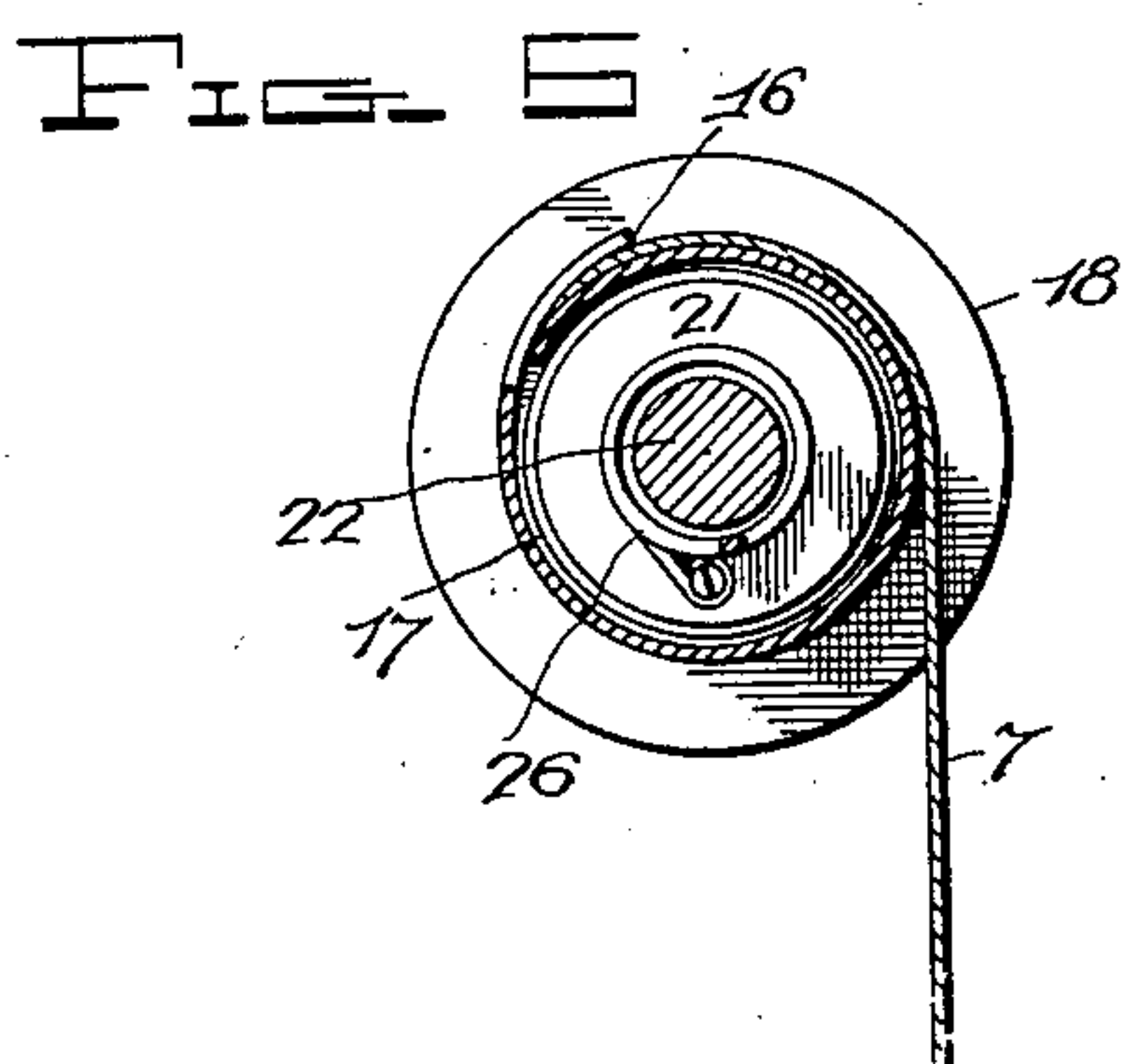
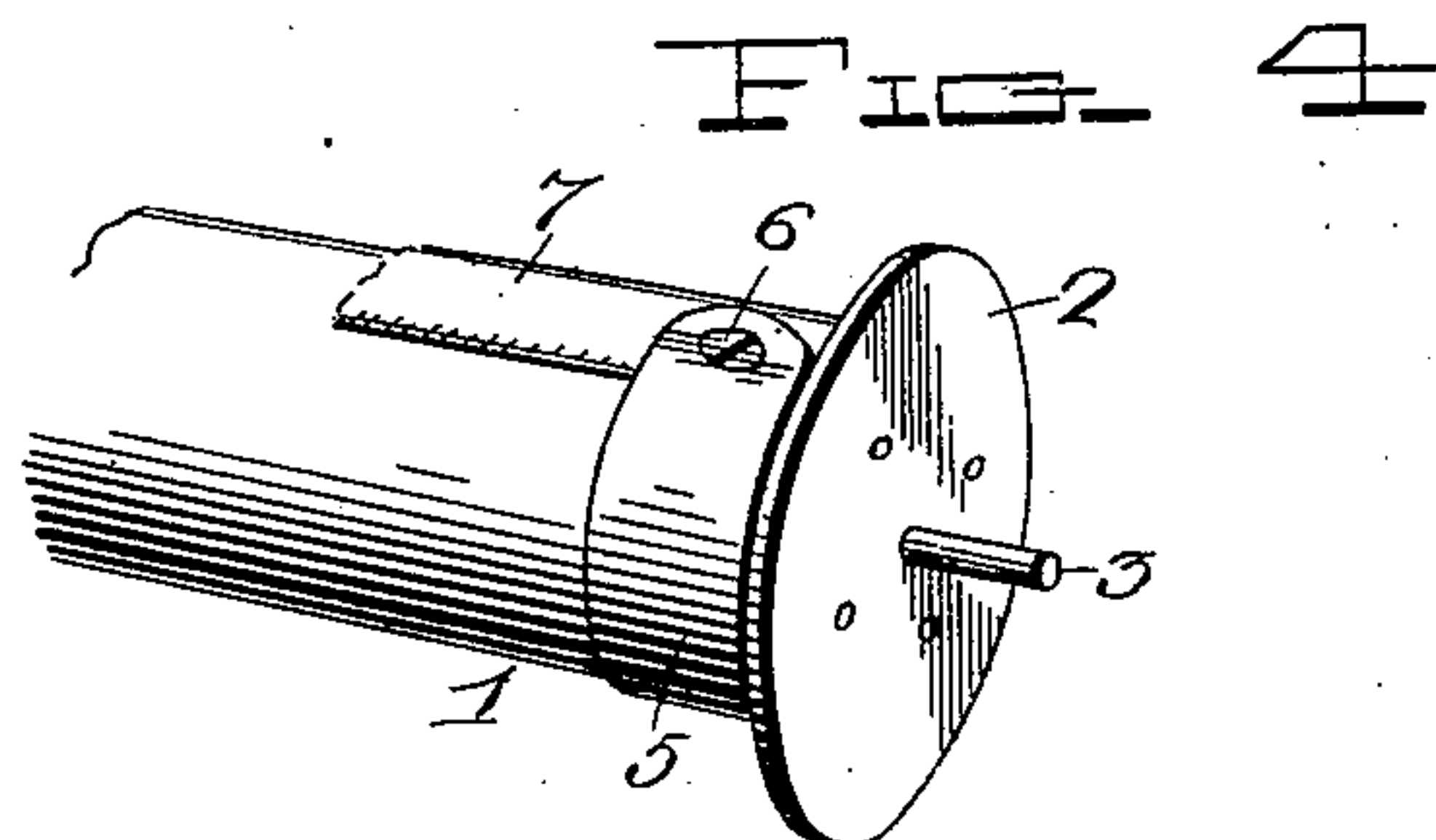
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Witnesses
D. L. [Signature]
[Signature]

UNITED STATES PATENT OFFICE.

ARNE S. TRAGETHON, OF KENSETT, IOWA.

SHADE-ROLLER.

SPECIFICATION forming part of Letters Patent No. 640,604, dated January 2, 1900.

Application filed October 5, 1899. Serial No. 732,651. (No model.)

To all whom it may concern:

Be it known that I, ARNE S. TRAGETHON, a citizen of the United States, residing at Ken-
sett, in the county of Worth and State of Iowa,
5 have invented certain new and useful Im-
provements in Shade-Rollers; and I do declare
the following to be a full, clear, and exact de-
scription of the invention, such as will enable
others skilled in the art to which it appertains
10 to make and use the same.

My invention relates to improvements in
adjustable shade-rollers; and the object is to
simplify and improve the construction and
increase the efficiency whereby the roller may
15 be adjusted to suit any window.

To these ends the invention consists in the
construction, combination, and arrangement
of the several elements of the device, as will be
hereinafter more fully described, and particu-
20 larly pointed out in the claim.

In the accompanying drawings, the same
reference characters indicate the same parts
of the invention.

Figure 1 is a perspective view of my shade-
25 roller as it appears in position. Fig. 2 is a
longitudinal section of the same. Fig. 3 is a
detail view of the winding end of the roller.
Fig. 4 is a similar view of the opposite end.
Fig. 5 is a transverse section on the line $x x$
30 of Fig. 2. Fig. 6 is a similar view taken on
the line $y y$ of Fig. 2. Fig. 7 is a perspective
view of the brackets which support the roller
in position.

1 denotes the solid end of the roller, which
35 is provided with a flange 2 and a cylindrical
journal 3, which has a bearing in the bracket 4.

5 denotes a band which has its lapped ends
secured to the solid end of the roller contigu-
ous to the flange 2 by the screw 6, and the
40 end of the shade 7 is also secured between the
lapped ends of said band by said screw 6.
The opposite end of the solid roller 1 is adjust-
ably secured in the tube 8 by means of the
screw 9, which passes through the ear 10 of
45 the tube and the shade 7. This tube 8 is pro-
vided with a longitudinal slot 12, which forms
a guide for the edge of the shade, and it is
also formed with the ears 10' and 10'', which also
overlap the shade and are secured in place
50 by screws 9' and 9'', the screw 9' entering a
cylindrical block 13 and the screw 9'' being
adjustably secured in a sleeve 14, the oppo-

site end of which is secured in a tube 15 by
the screw 9'', which passes through the lapped
ear 10'' and shade, as in the prior instances, 55
and the outer end of said tube 15 is formed
with a spring-clip 16 to receive the outer end
of the shade, as shown. This end of the tube
15 forms a bearing for the collar 17, which is
integral with the flange 18, the latter being 60
provided with a rectangular orifice 19 to re-
ceive the correspondingly-formed shank 20'
of the bracket 20.

21 denotes a hub fixed in the collar 17 to
receive the fixed end of the winding-shaft 22, 65
which extends through the sleeve 14, its outer
end terminating in a duplex ratchet 23, pro-
jecting into the path of the pawls 24 25, piv-
oted on the contiguous end of the sleeve.

26 denotes the winding spring encompass- 70
ing the shaft 22, one end of the spring being
fixed to the sleeve 14 and the other end to the
stationary hub 21.

When the shade is drawn down, the tubes
15 and 8, the sleeve 14, and the roller 1 all 75
rotate to wind up the spring and the shade
held in position by either of the pawls 24 or
25, engaging the ratchet 23, whereas to raise
the shade it is first drawn down a short dis-
tance and allowed to rewind rapidly, so that 80
the pawls will be thrown outward by centrif-
ugal force and pass the ratchet, and when the
proper point has been reached the shade is
stopped for a moment and then allowed to
move upward more slowly to give the pawls 85
time to drop by gravity into the ratchet and
thereby lock the roller at the desired point.

As before stated, it will be understood that
the solid roller 1 is longitudinally adjustable
in the tube 8 by means of the screw 9, and the 90
opposite end of said tube is correspondingly
adjustable on the sleeve 14 by means of the
screw 9'', thus permitting the roller proper to
be lengthened or shortened at will to corre-
spond to the width of the shade and window- 95
frame to which it is to be adjusted.

The accompanying drawings show my in-
vention in the best form now known to me;
but many changes in the details might be
made within the skill of a good mechanic 100
without departing from the spirit of my in-
vention as set forth in the claim at the end
of this specification.

Having thus fully described my invention,

what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

In combination, the solid roller-section, 1,
5 the tube, 8, adjustably secured thereon, the sleeve, 14, having its end adjustably secured in said tube, 8, the tube, 15, fixed on the opposite end of said sleeve, the stationary collar, 17, the pawls carried by the sleeve, the
10 winding-shaft and spring, and the ratchet

fixed on said shaft in the path of said pawls, substantially as shown and described.

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

ARNE S. TRAGETHON.

Witnesses:

H. O. HAUGEN,
N. E. HAUGEN.