

March 20, 1928.

1,663,264

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LAMP RETAINER FOR LAMP SOCKETS

Filed Sept. 13, 1922

Fig. 1.

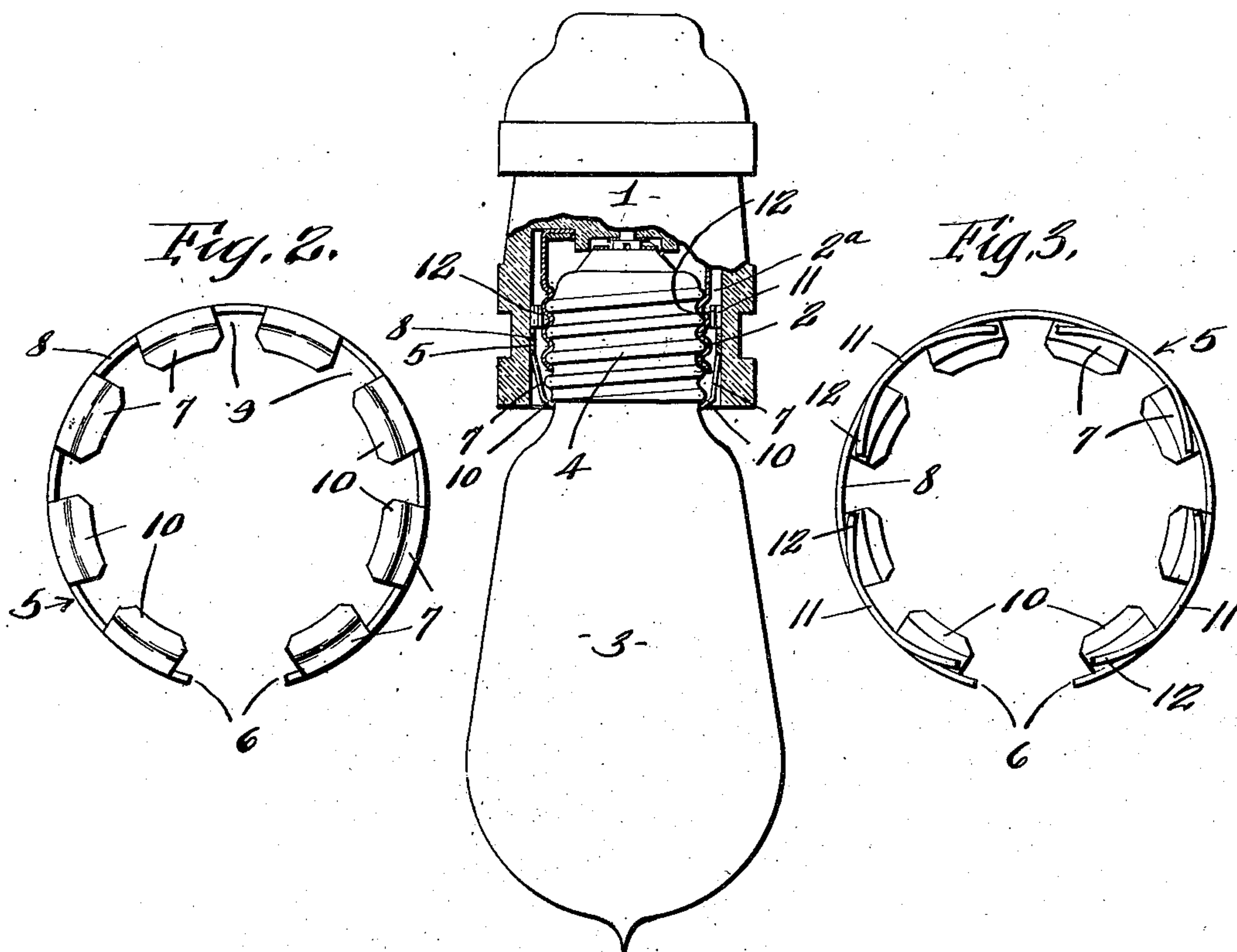
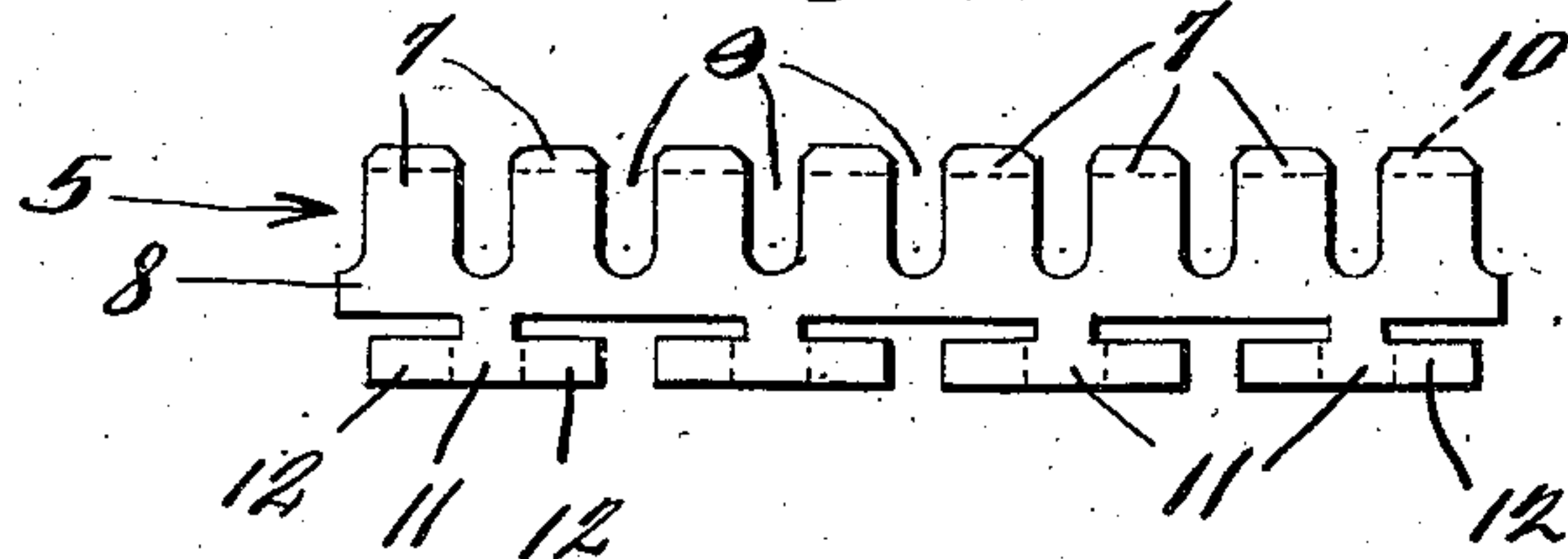


Fig. 2.

Fig. 3.

Fig. 4.



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Patented Mar. 20, 1928.

1,663,264

UNITED STATES PATENT OFFICE.

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LAMP RETAINER FOR LAMP SOCKETS.

Application filed September 13, 1922. Serial No. 588,014.

This invention has for its object a lamp
retainer for lamp sockets, which is particu-
larly simple and economical in construction
and highly efficient and durable in use to
prevent loosening of the lamp by vibration
and the like.

The invention consists in the novel fea-
tures and in the combinations and construc-
tions hereinafter set forth and claimed.

In describing this invention, reference is
had to the accompanying drawings, in
which like characters designate correspond-
ing parts in all the views.

Figure 1 is a vertical sectional view of this
lamp retainer showing the same applied to a
lamp socket and lamp, the socket being
shown partly in section.

Figure 2 is an enlarged end elevation of
the retainer looking upwardly.

Figure 3 is an enlarged end elevation look-
ing downwardly.

Figure 4 is an expanded plan view of the
retainer.

1 designates the body of the lamp socket
which may be of any suitable form, size, con-
struction and material, it having the usual
outer or screw threaded sleeve terminal 2,
which is spaced apart from the walls of the
body of the socket 1, providing the annular
space 2^a around the shell 2.

3 is a lamp having the usual screw
threaded plug or base 4.

This lamp retainer comprises a sleeve 5
insertable between the wall of the body of
the lamp socket and the sleeve terminal 2
and provided with means for frictionally en-
gaging the inner wall of the body 1 and the
peripheral wall of the sleeve terminal 2, and
also means for engaging the lamp or the
lamp base.

The sleeve here illustrated is split at 6
and is expansible and contractile and is pro-
vided with means at its opposite, as its inner
and outer ends, for engaging the inner wall
of the body of the lamp socket and the pe-
ripheral wall of the sleeve terminal 2, and
for engaging the lamp.

As here illustrated, the sleeve is provided
with prongs 7 extending lengthwise thereof
or in a direction parallel to the axis of the
sleeve from an intermediate portion 8 of the
sleeve, these prongs being spaced apart pro-
viding spaces 9 and being deflected inward-
ly and provided with inturned projections 10
at their outer or lower ends.

The sleeve is also provided with addi-
tional projections 11 at its inner end, the
additional projections having angular or cir-
cumferentially extending arms 12 tensioned
to engage at their ends the periphery of the
sleeve terminal 2.

Preferably, the projections or prongs 11
are T-shaped in general form, the legs of
the T formation being arranged in alinement
with the spaces 9 between the prongs 7 and
the arms of the T being bent inwardly to
tension them to engage the periphery of the
sleeve terminal 2.

In operation, the sleeve 5 is inserted in the
lamp socket in the space 2^a and the ends
of the arms of the T press against the sleeve
terminal 2 while the intermediate part of
the projections 11 or the parts at the ends
of the legs of the T press against the
inner wall of the body 1 of the lamp socket
and thus frictionally hold the sleeve 5 in
position.

The inturned ends 10 of the prongs 7 nor-
mally project into an arc of less radius than
the interior of the sleeve terminal 2.

When the lamp base is screwed into the
sleeve terminal to its full extent, or far
enough so that the central terminal of the
lamp engages the central terminal of the
socket, the inturned ends 10 either engage
the threads of the lamp base, or in case the
lamp screws in far enough, hook under the
outer end of the outer terminal of the lamp
base and thus hold the lamp base from shift-
ing.

What I claim is:

1. A lamp retainer for lamp sockets com-
prising an expansible and contractile split
sleeve formed with tongues extending in a
direction parallel to the axis of the sleeve
and provided with projections at their ends
for engaging the lamp base, substantially as
and for the purpose described.

2. A lamp retainer for lamp sockets com-
prising an expansible and contractile split
sleeve having lengthwise prongs provided
with inturned ends substantially as and for
the purpose specified.

3. A lamp retainer for lamp sockets com-
prising an expansible and contractile sleeve
for entering the lamp socket, the sleeve being
provided with means at its ends for engag-
ing respectively the lamp socket and the
lamp base, substantially as and for the pur-
pose set forth.

4. A lamp retainer for lamp sockets comprising an expansible and contractile sleeve for entering the socket and formed with lengthwise prongs extending from the intermediate portion thereof toward one end and with other prongs extending from such intermediate portion toward the other end, the first-mentioned prongs being provided with means at their ends for engaging the threads of the lamp base, and the second-mentioned prongs being provided with means for engaging the lamp socket, substantially as and for the purpose described.
5. A lamp retainer for lamp sockets comprising an expansible and contractile sleeve provided with tongues extending lengthwise thereof, each tongue having a circumferentially extending arm having its end arranged to engage the periphery of the sleeve terminal of the lamp base, substantially as and for the purpose specified.
6. A lamp retainer for lamp sockets comprising an expansible and contractile split sleeve having T-shaped prongs at one end thereof, the ends of the arms of the T formation being arranged to engage the lamp socket, substantially as and for the purpose set forth.
7. A lamp retainer for lamp sockets comprising an expansible and contractile split sleeve having prongs extending lengthwise thereof from an intermediate portion and having their ends intumed and having additional prongs extending from such intermediate portion, said additional prongs being T-shaped in general form and the legs of the T formation being arranged in alignment with the spaces between the first-mentioned prongs, and the arms of the T-shaped prongs being tensioned to engage the lamp socket, substantially as and for the purpose described.
8. The combination of a lamp socket comprising a body and a sleeve terminal, spaced apart from the wall of the body providing an annular space around the sleeve terminal, a lamp retainer including an annular portion extending into such annular space having means at spaced apart points for engaging the sleeve terminal and for engaging the body and also having means at the outer end of the socket for engaging the lamp.
9. The combination with a lamp socket having a sleeve terminal spaced apart from the wall of the socket providing an annular space around the sleeve terminal, of a lamp retainer comprising a sleeve insertable in such space and provided with prongs at its inner end tensioned to engage the lamp socket and the sleeve terminal and with prongs at its outer end to engage the lamp, substantially as and for the purpose set forth.
10. The combination with a lamp socket comprising a body and a sleeve terminal in the body spaced apart from the wall of the body providing an annular space around the sleeve terminal, of a lamp retainer comprising an expansible and contractile split sleeve having spaced apart prongs extending lengthwise thereof from an intermediate portion toward the outer end of the socket to engage the lamp and also having additional prongs extending from such intermediate portion toward the inner end of the socket and formed with circumferentially extending spring arms for engaging the sleeve terminal and the inner wall of the body, substantially as and for the purpose described.
- In testimony whereof, I have hereunto signed my name, at Syracuse, in the county of Onondaga and State of New York, this 15 day of August, 1922.
- DON N. THOMPSON.