

No. 673,309.

Patented Apr. 30, 1901.

J. V. WALSH.
CLOSURE FOR BARRELS.

(Application filed Jan. 2, 1901.)

(No Model.)

Fig. 2.

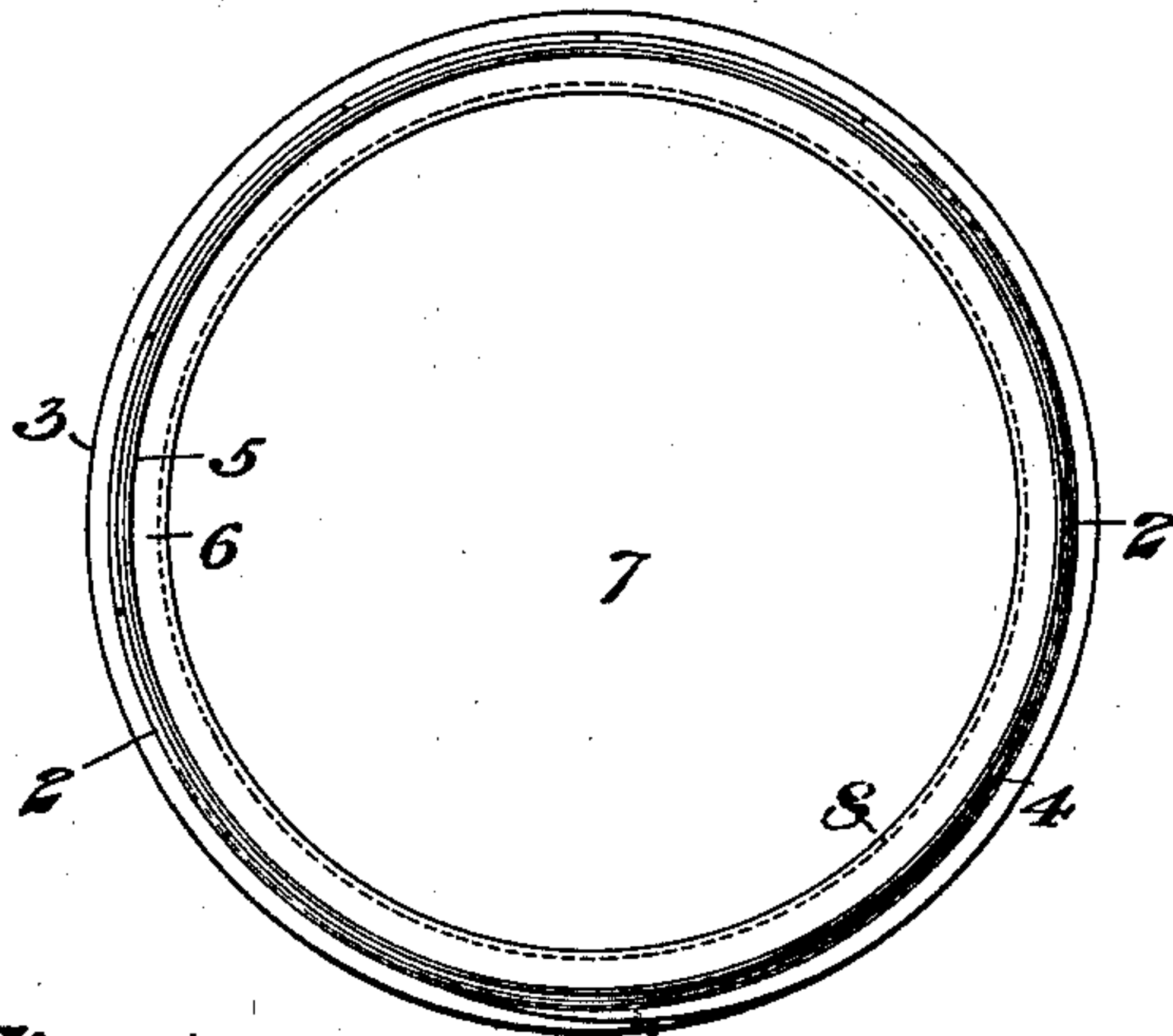


Fig. 1.

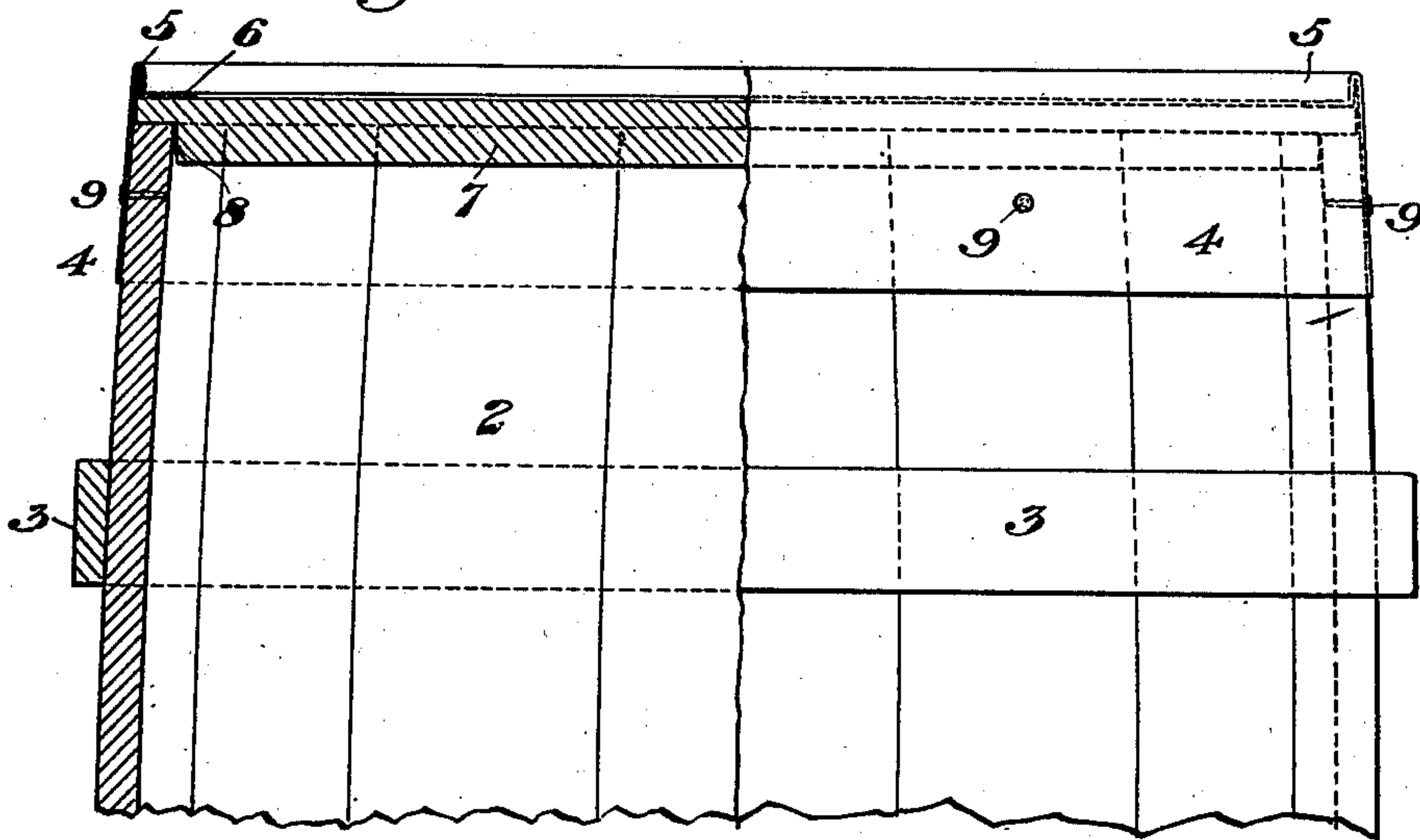
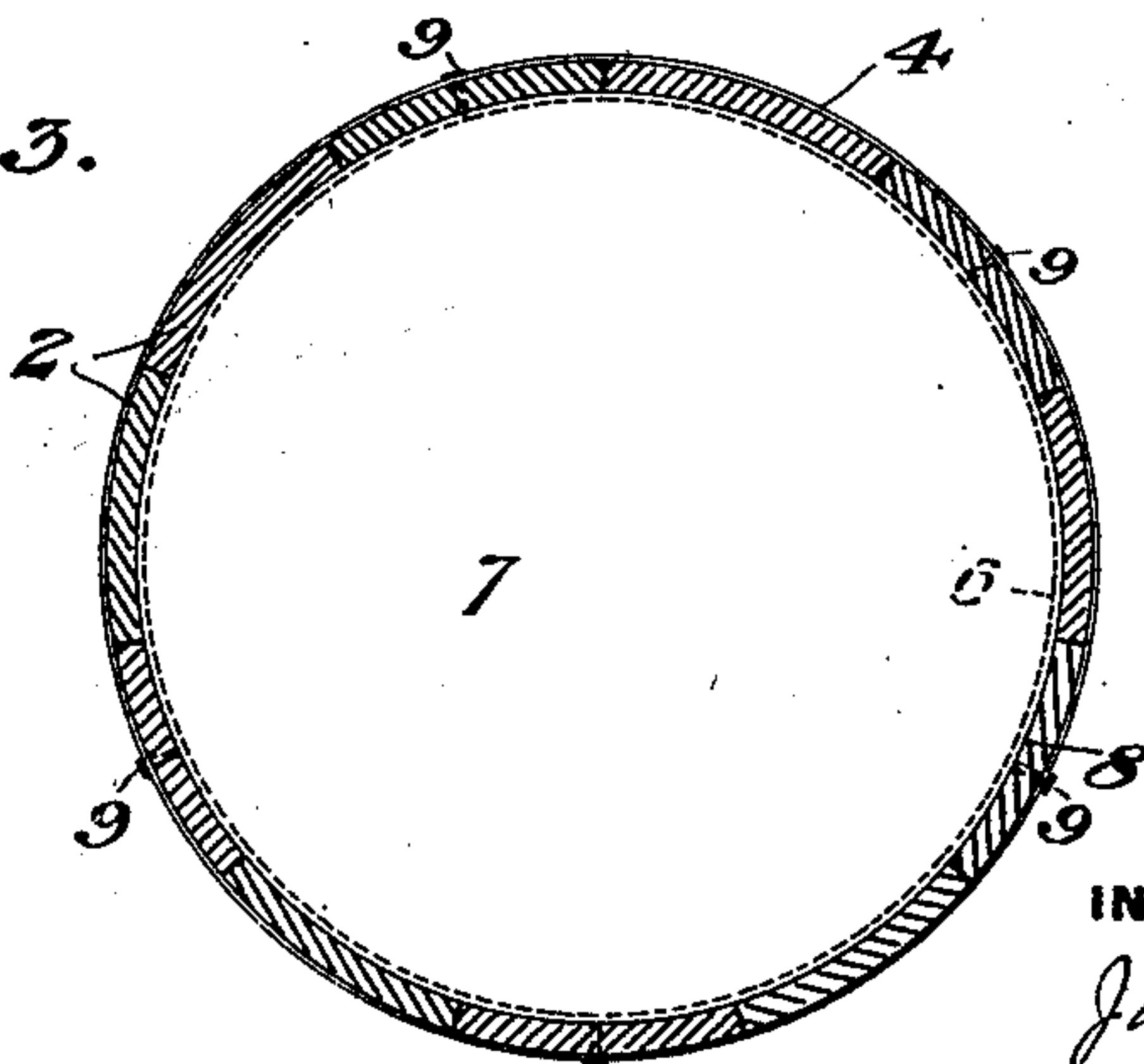


Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES V. WALSH, OF PITTSBURG, PENNSYLVANIA.

CLOSURE FOR BARRELS.

SPECIFICATION forming part of Letters Patent No. 673,309, dated April 30, 1901.

Application filed January 2, 1901. Serial No. 41,775. (No model.)

To all whom it may concern:

Be it known that I, JAMES V. WALSH, of
Pittsburg, in the county of Allegheny and
State of Pennsylvania, have invented a new
5 and useful Improvement in Closures for Bar-
rels, Kegs, &c., of which the following is a
full, clear, and exact description, reference
being had to the accompanying drawings,
forming part of this specification, in which—
10 Figure 1 is a side elevation, partly in sec-
tion, showing the end portion of a barrel pro-
vided with my improved end closure; and
Figs. 2 and 3 are respectively an end elevation
and a cross-section of the same on a smaller
15 scale.

My invention relates to the closing of the
ends of barrels, kegs, &c., and is designed to
provide an improved header and end hoop
therefor, together with an improved construc-
20 tion of head to coact with the header.

In the drawings I show a barrel as formed
of the usual staves 2, having intermediate
wooden hoops 3 surrounding them. At the
end of the barrel in place of the usual wooden
25 end hoop I provide a metallic band 4, having
a reversely-bent portion 5 and an inwardly-
projecting annular flange 6. The head 7 of
the barrel is rabbeted to form an annular
groove 8, which extends around the lower
30 portion of the edge of the head and which is
entered by the ends of the staves, as shown
in Fig. 1.

In closing up the barrel or keg end the head
is slipped into place, and the metallic band
35 being then pushed on is secured by nails 9 or
other suitable securing devices.

The advantages of my invention result from
the use of the band with the inwardly-pro-
jecting portion, which bears upon the outer
40 face of the head and secures it in place, and,
further, from the rabbeted head in giving an
inner shoulder, against which the stave ends
rest, thus preventing their being bent in-
wardly. The chamfering and crozing of the

barrel are done away with, as well as the head- 45
lining and batting. The breaking of the
usual wooden end hoops and the consequent
deterioration of the barrel are avoided, while
the end of the barrel is strengthened and
stiffened. 50

The metallic-band portion may be used with
an ordinary head, though I prefer to use the
head shown, and many other changes may be
made in the form and arrangement of the
parts without departing from my invention. 55

I claim—

1. A barrel or keg having a head fitting
upon the end of the staves, and a continuous
end hoop extending outwardly beyond the
head and having an inward extension bearing 60
upon said head; substantially as described.

2. A barrel or keg having a head resting
upon the ends of the staves, and a continuous
end hoop extending beyond the head to pro-
vide a projecting lip and having an inward 65
lateral extension bearing upon said head; sub-
stantially as described.

3. A barrel or keg having a head resting on
the ends of the staves, and an end hoop with
a two-ply reversely-bent extension projecting 70
beyond the head, and having an intermediate
inwardly-projecting flange bearing upon the
head around substantially its entire circum-
ference; substantially as described.

4. A barrel or keg having a rabbeted head 75
fitting upon the ends of its staves, and ar-
ranged to prevent the staves from bending
inwardly, and an end hoop extending out-
wardly beyond the plane of the head and hav-
ing an inwardly-projecting flange bearing 80
upon it; substantially as described.

In testimony whereof I have hereunto set
my hand.

JAMES V. WALSH.

Witnesses:

C. P. BYRNES,
H. M. CORWIN.