

No. 624,282.

Patented May 2, 1899.

W. H. WYLER.

OILER.

(Application filed June 20, 1898.)

(No Model.)

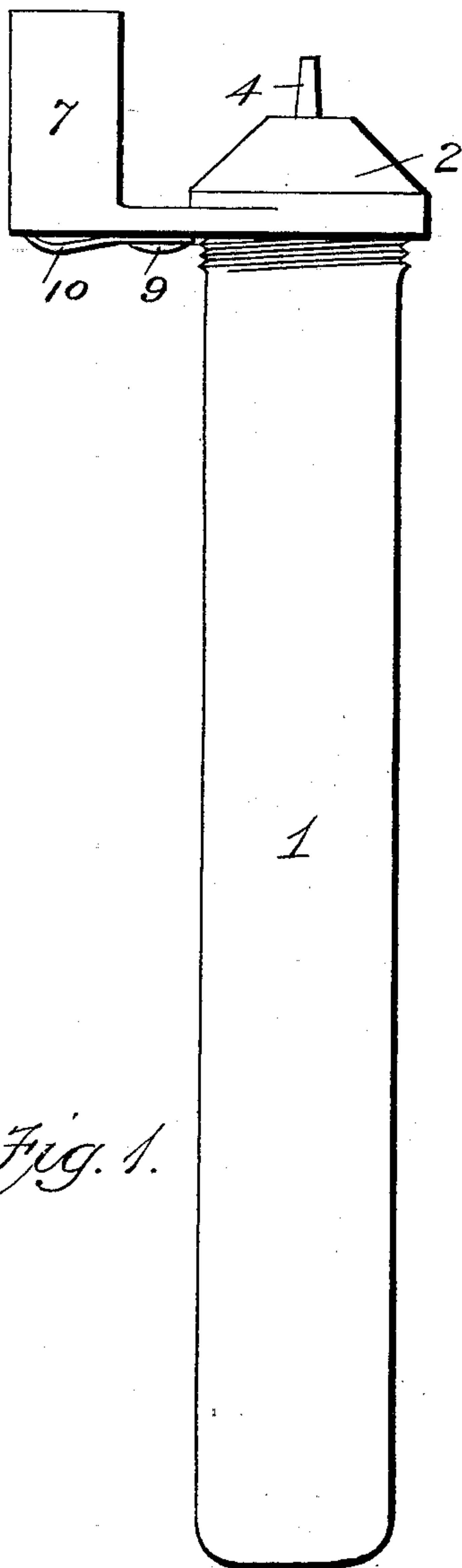


Fig. 1.

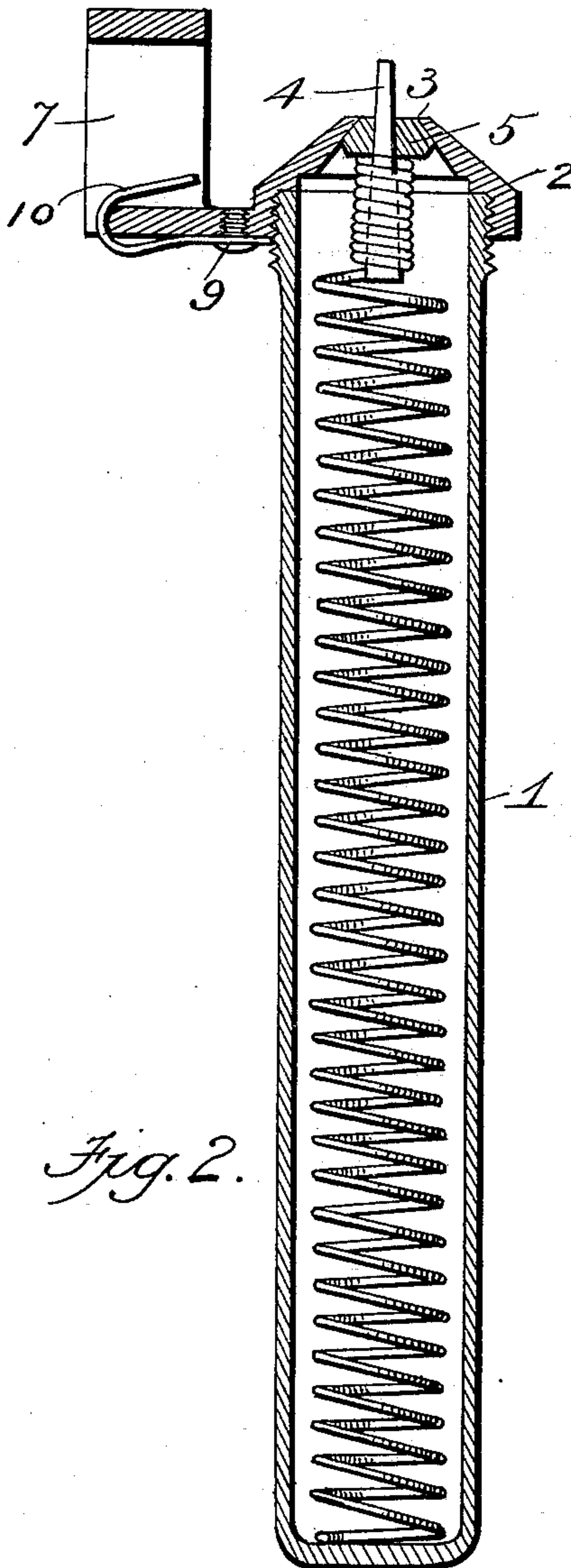


Fig. 2.

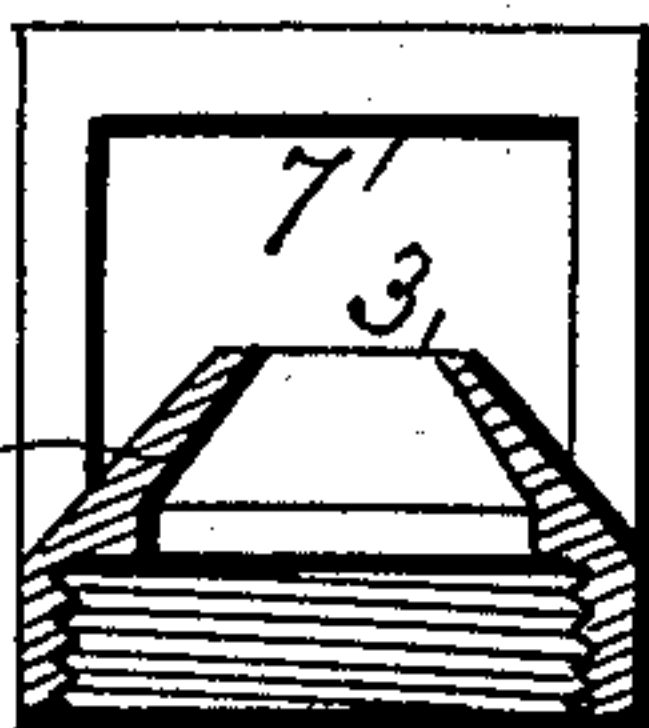


Fig. 3.

Witnesses:
Frank L. Ouraud
J. L. Coombs

Inventor:
Wm. H. Wyler,
by Louis Bagge & Co.
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM H. WYLER, OF RAGERSVILLE, OHIO.

OILER.

SPECIFICATION forming part of Letters Patent No. 624,282, dated May 2, 1899.

Application filed June 20, 1898. Serial No. 683,903. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. WYLER, a citizen of the United States, residing at Rag-
ersville, in the county of Tuscarawas and State
5 of Ohio, have invented new and useful Im-
provements in Oilers, of which the following
is a specification.

My invention relates to improvements in
oilers principally designed for oiling the spin-
10 dles of vehicle-axles; and its object is to pro-
vide an improved construction of the same
which shall possess superior advantages with
respect to efficiency in operation.

The invention consists in the novel con-
15 struction and combination of parts herein-
after fully described and claimed.

In the accompanying drawings, Figure 1 is
an elevation of a wrench constructed in ac-
cordance with my invention. Fig. 2 is a lon-
20 gitudinal sectional view of the same. Fig.
3 is a sectional view of the head and jaw de-
tached.

In the said drawings the reference-numeral
1 designates a tube or hollow cylinder closed
25 at one end and open at the opposite end and
provided with exterior screw-threads. Engag-
ing with said screw-threads is a correspond-
ingly-threaded conical head 2, said head be-
ing counterbored on inside, forming an en-
30 larged chamber with conical walls sloping to
the central opening 3, which opening is so
constructed that its walls are reduced to the
greatest possible thinness immediately about
said opening.

35 The numeral 4 designates a tapering pin
provided with a conical valve 5, which fits in
the reduced valve-seat in the cap 2. Located
in the tube 1 is a coiled spring 12, one end of
which abuts against the closed end of the
40 tube, while the other end is contracted and
coiled around the inner end of said tube.

The numeral 7 designates a rectangular jaw
preferably formed integral with said head
and adapted to engage with an ordinary ve-
45 hicle-nut. Secured to the exterior of said
jaw by means of a pin or rivet or other fas-
tening device 9 is a spring 10. The free end
of this spring is bent over the edge of the
jaw, so as to project into the latter and bear
50 against the nut removed thereby.

The manner of using the device is as fol-

lows: The tube is filled with oil, and the point
of the outer end of the pin or stem 4 is pressed
against the spindle, when the valve 5 will
open, the valve 5 at the same time receding 55
from the valve-seat, the oil by its own grav-
ity falling around and underneath the valve
5 and filling the enlarged space over the cen-
tral opening and about the valve-seat and
about the pin 4. It should be remembered that 60
heavy oil will not pass out as any lighter fluid
would, but will remain suspended over the
central opening until the reverse action of
the valve forces it out. When the pressure
is removed from point 4, the coiled spring will 65
press the valve 5 down onto its seat, at the
same time carrying the oil immediately un-
der the valve 5 and adhering to the stem 4
down through the central opening and out
on the spindle. The jaws about the central 70
opening being bored out sharp reduces fric-
tion of oil on sides of opening to a minimum,
and permits air to readily enter while the oil
is moving down and out.

While I have shown the oiler provided with 75
a wrench to remove the nuts from the vehicle-
spindles, I make no claim thereto in the pres-
ent application.

Having thus fully described my invention,
what I claim is— 80

In an oiler of the character described, the
combination with the tubular oil-receptacle
closed at one end and open at the other end
and formed with exterior screw-threads, of the
screw-threaded conical cap engaging there- 85
with having a conical opening in its outer
end, the tapering valve engaging with said
opening, the tapering pin passing through
said valve, and the coiled spring located in
said receptacle with its inner end resting 90
against the closed end thereof and the oppo-
site end formed with a number of contracted
coils wound around and secured to the inner
end of said pin and abutting against the said
valve, substantially as described. 95

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

WILLIAM H. WYLER.

Witnesses:

JOHN R. ZIMMERMAN,
FRED W. ANDREWS.