

(No Model.)

H. C. HANDLEN.
PORTABLE OIL BATH FOR WHEELS.

No. 397,643.

Patented Feb. 12, 1889.

Fig. 6.

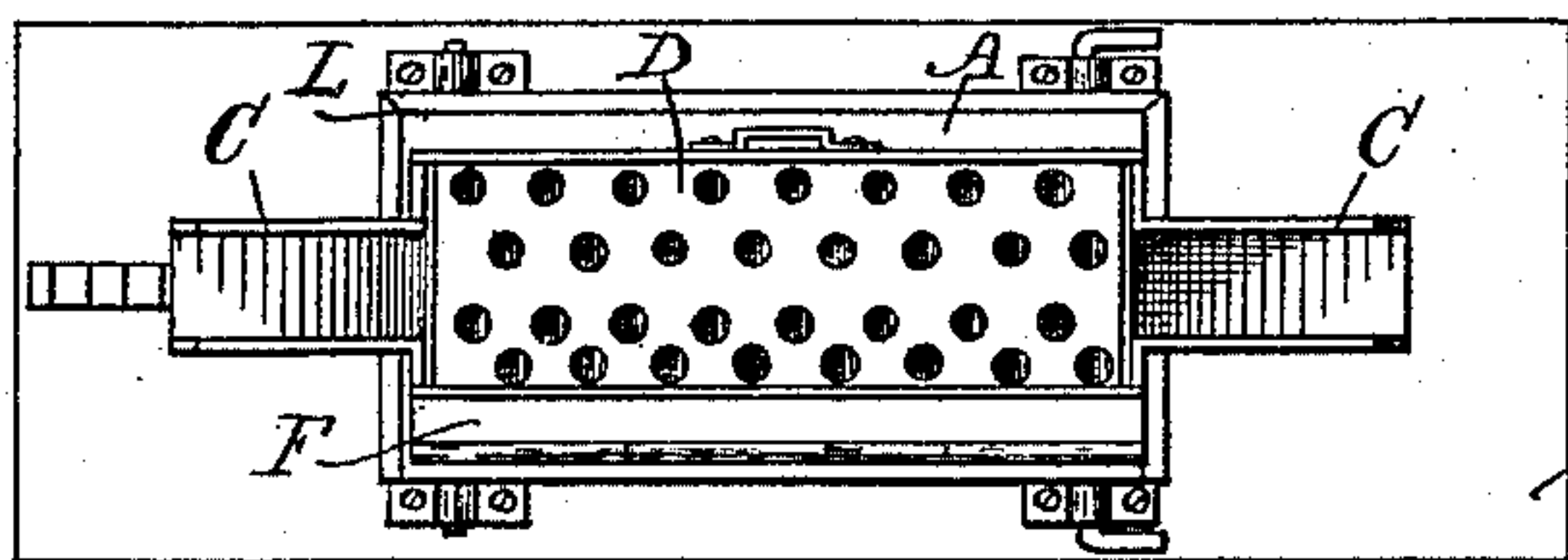
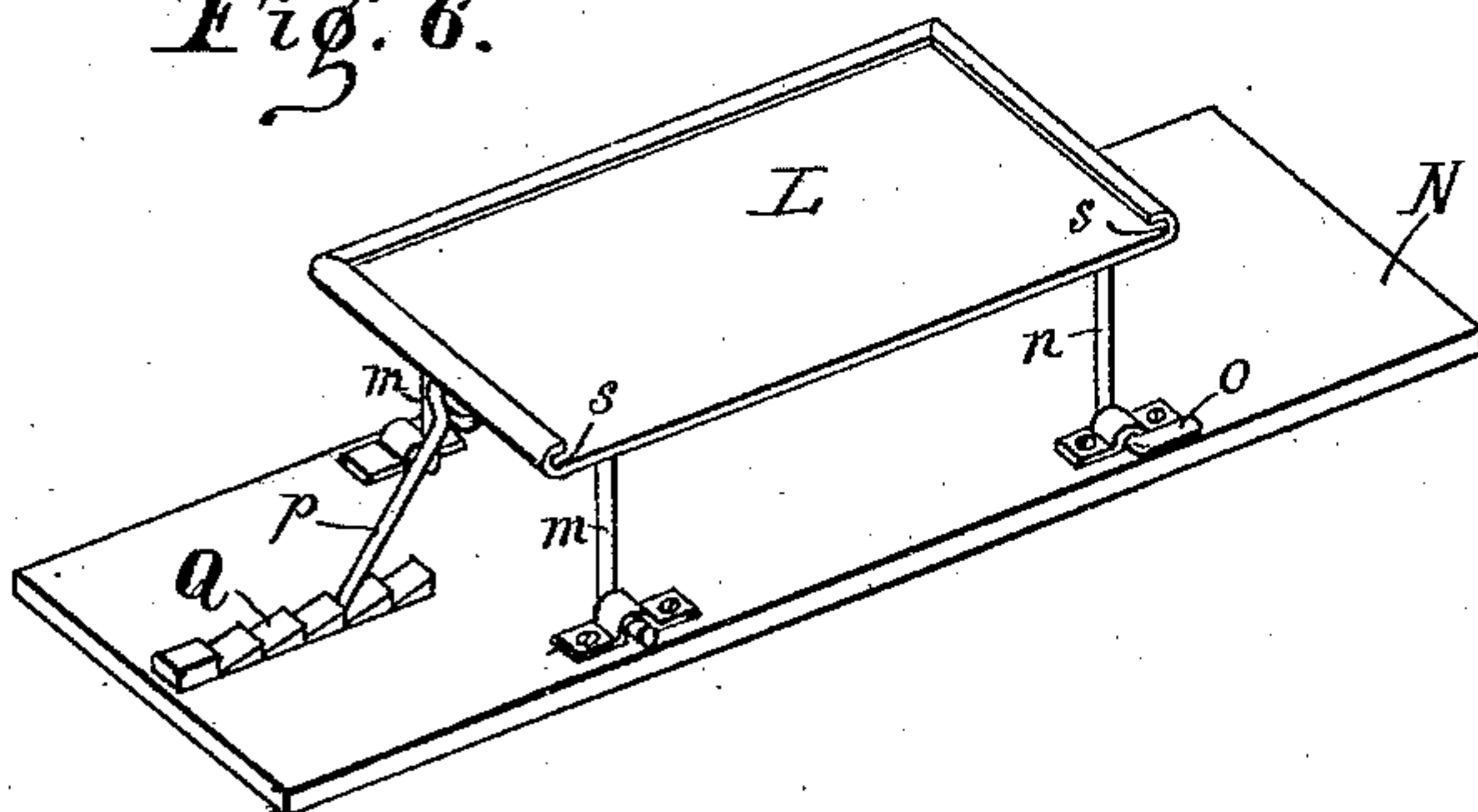


Fig. 5.

Fig. 2.

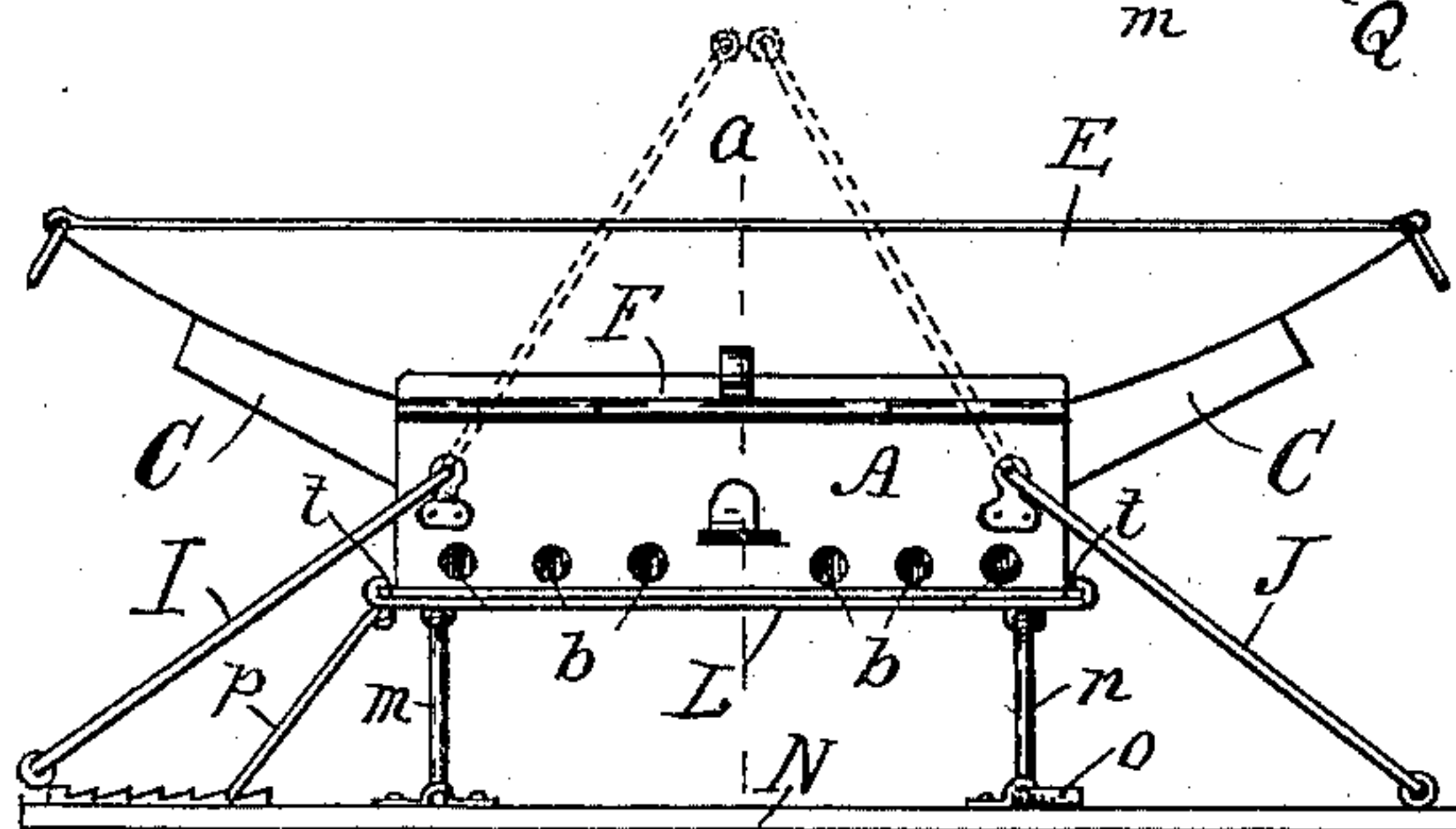
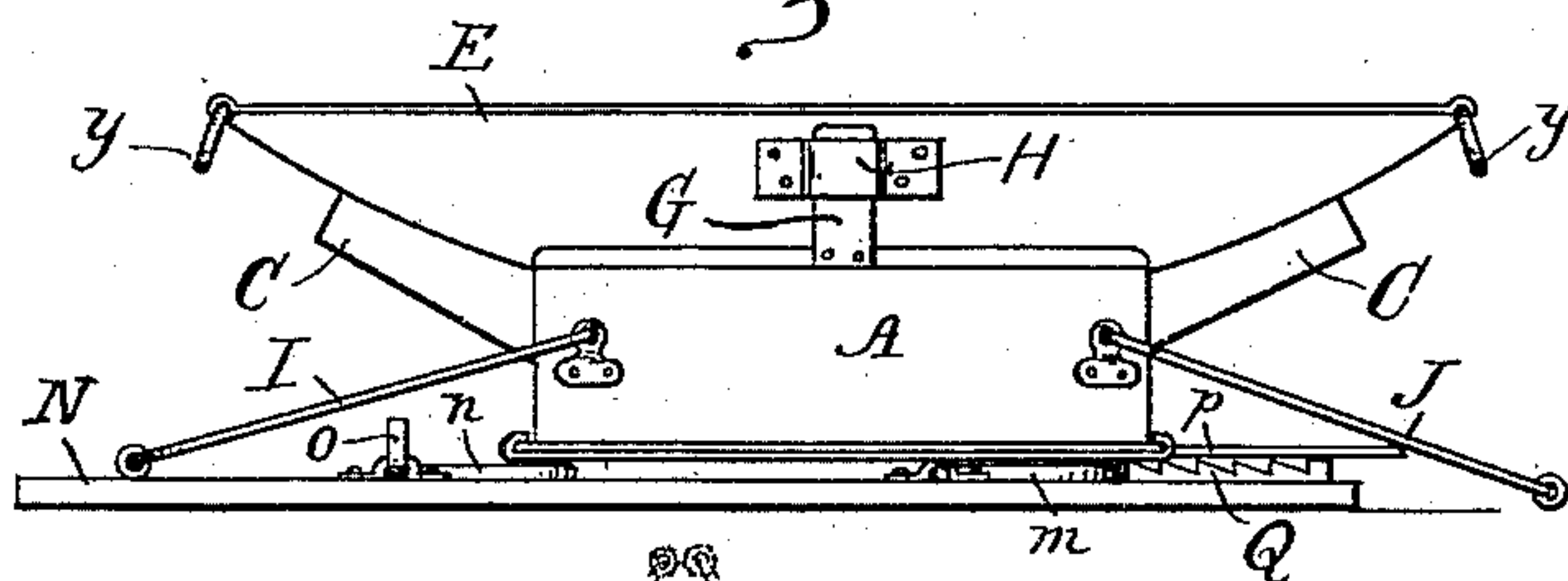


Fig. 1.

Fig. 4.

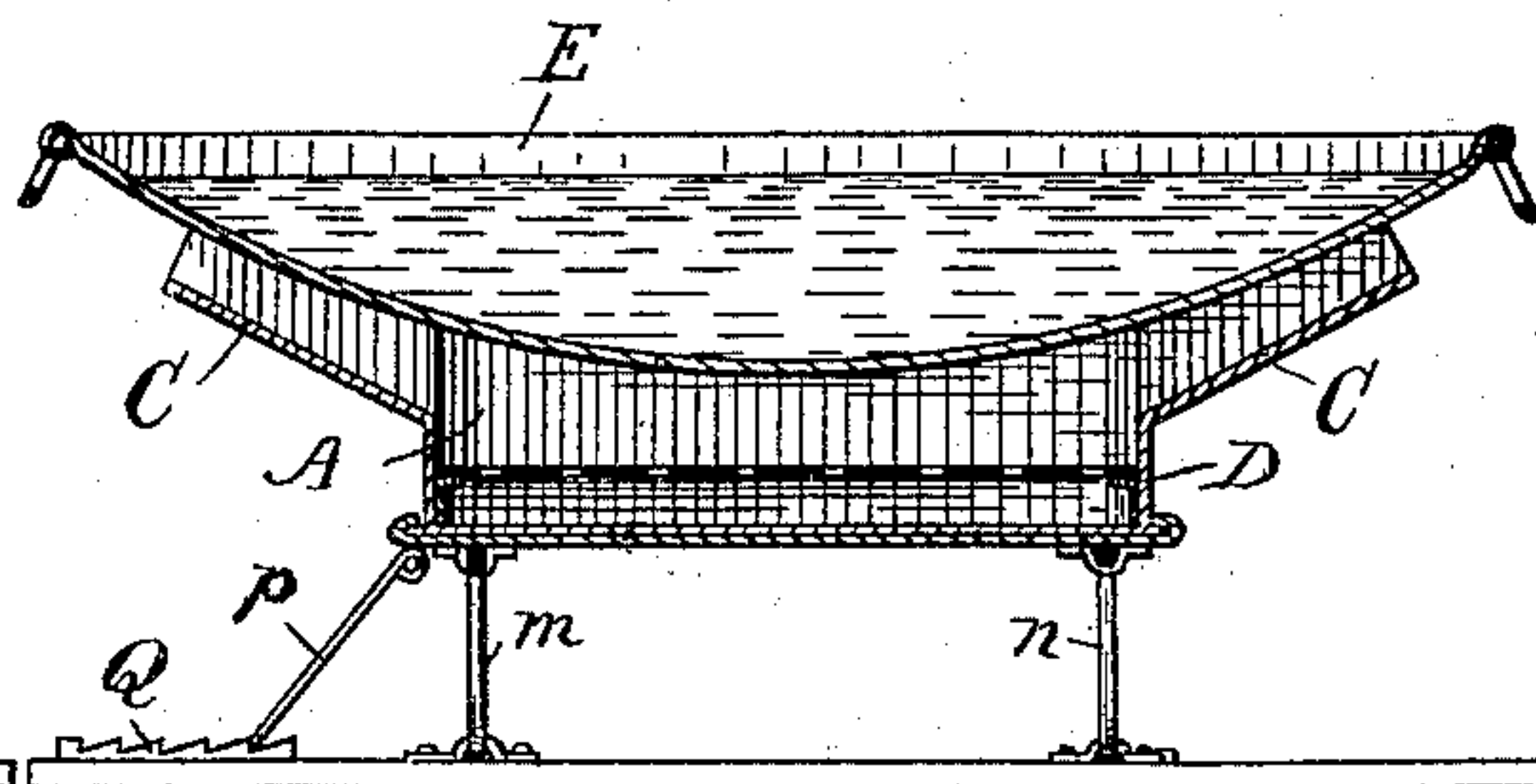
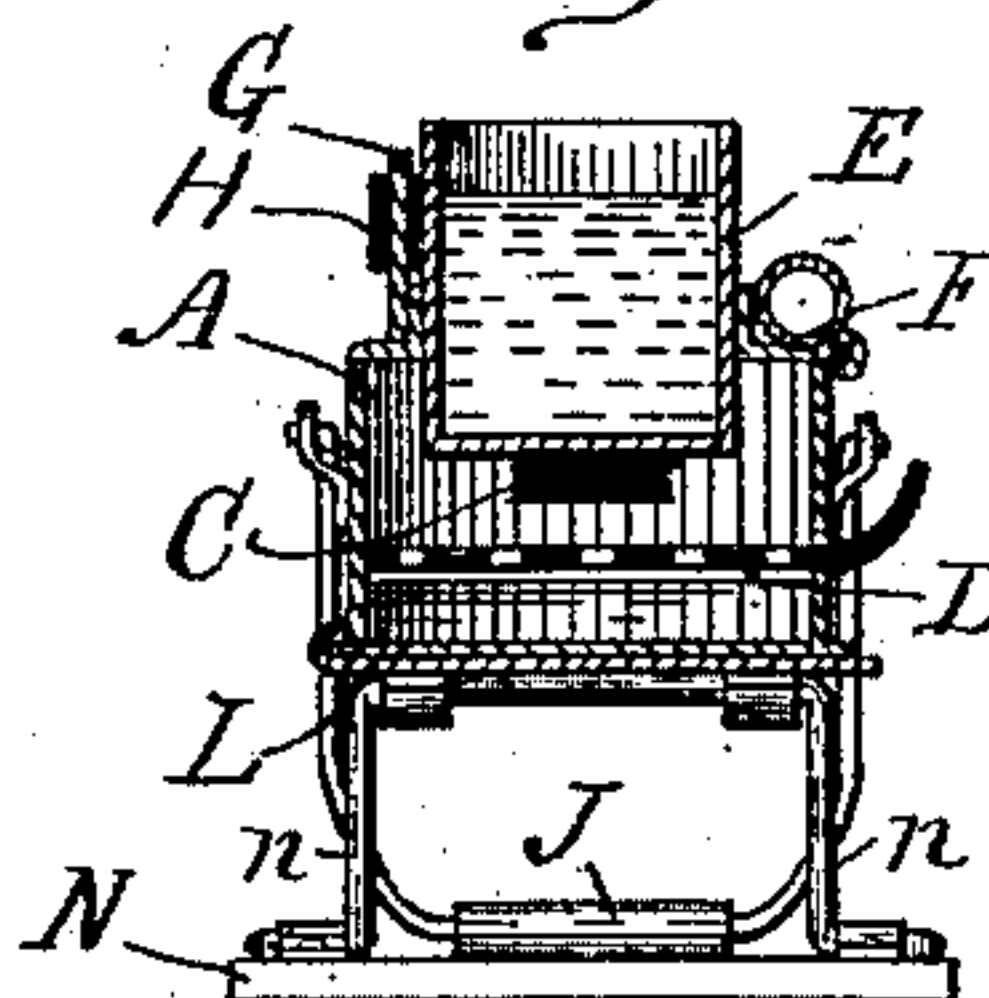


Fig. 3.

Witnesses,
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UNITED STATES PATENT OFFICE.

HENRY C. HANDLEN, OF THORNTOWN, INDIANA.

PORTABLE OIL-BATH FOR WHEELS.

SPECIFICATION forming part of Letters Patent No. 397,643, dated February 12, 1889.

Application filed July 19, 1888. Serial No. 280,356. (No model.)

To all whom it may concern:

Be it known that I, HENRY C. HANDLEN, a citizen of the United States, residing at Thorn-
town, in the county of Boone and State of In-
diana, have invented a new and useful Im-
proved Portable Oil-Bath for Wheels, of
which the following is a specification.

My invention relates to an improved oil-
bath for saturating the rims of wagon-wheels.

The object of my improvement is to pro-
vide a portable bath for saturating the rims
of wheels with oil to prevent shrinkage, in
which the oil may be heated, and may be con-
veniently applied to the wheel without remov-
ing the wheel from its axle, all as hereinafter
fully described.

The accompanying drawings illustrate my
invention.

Figure 1 represents a front side elevation
showing the bath in position for use. Fig.
2 represents a rear side elevation showing
the position of the bath preparatory to im-
mersing the wheel therein. Fig. 3 represents
a central longitudinal section of Fig. 1. Fig.
4 represents a transverse section at *a*, Fig. 1.
Fig. 5 is a plan having the oil-trough removed.
Fig. 6 is a view in perspective of the folding
support for the bath.

A is the furnace for heating the oil. Said
furnace consists of a rectangular box of sheet
metal having openings *b b* on one side near
the bottom and having at each end, near the
top, trough-like projections C C, which form,
with the bottom of the oil-trough, flues for
the escape of the products of combustion.

D is a perforated plate, forming a remova-
ble grate, which is supported within box A,
above the openings *b*.

E is a segmentally-shaped trough arranged
to cover the top of the furnace, except a nar-
row space near the front, which is covered by
a lid, F.

Trough E is provided at each end with bails
y y, and is held in place on the furnace by a
lug, G, which projects from the top of the fur-
nace and enters a loop, H, on the back side of
the trough.

I and J are wire bails, which are secured to
the sides of the furnace, and may be brought
together over the top of the trough to serve
as a handle for carrying the apparatus, as

shown in dotted lines, Fig. 1, or swung down
over the ends, as shown in full lines, the bail
serving when in this position as a handle for
pulling the trough and furnace into position,
as hereinafter fully explained.

The table and trough are mounted upon
and detachably connected to a folding sup-
port, which consists of a flat table, L, of sheet-
metal, having at each end a pair of folding
legs, *m m* and *n n*. Said legs are hinged at
the top to the bottom of the furnace, and at
the bottom are hinged to the bed-plate N.
Legs *n* are provided with an arm, *o*, which
rests on the top surface of the bed-plate when
the legs are in an upright position and forms
a stop to prevent the legs from passing the
perpendicular when raised. Table L is held
in position when raised by a pawl, *p*, which is
hinged to one end of the table and engages
a ratchet-plate, Q, which is secured to the top
of the bed-plate.

For the purpose of detachably securing the
furnace to the table, the ends of the table are
turned upward and inward to form grooves
s s, and the bottom of the furnace is extended
at the ends, as at *t t*, to form flanges which
slide into said grooves from one side.

The operation of my device is as follows:
The parts being in the position shown in Fig.
2, trough E is partly filled with linseed or
like oil, and a fire is kindled in the furnace
under the trough. The products of combus-
tion being conducted out at each end by the
flues C C, the oil is quickly heated with a lit-
tle fuel. The wagon-axle on which the wheel
to be treated is mounted is now raised so that
the rim of the wheel will clear the top edge
of the trough, and the whole apparatus is then
slid beneath the wheel, the bed-plate resting
on the ground. The operator now raises the
folding table, preferably by pulling on bail J,
thus bringing the trough up around the lower
side of the wheel-rim and immersing it in the
oil, the table being locked in position by the
arm *o* and pawl *p*. The wheel is now turned
slowly on its axle until all parts of the rim
have been treated.

I claim as my invention—

1. In an oil-bath for wheels, the combina-
tion, with the oil-trough and the furnace sup-
porting said trough and having extensions *t t*,

of the table having grooves s s, the bed-plate, and two pairs of legs connecting said table and bed-plate, said legs being hinged at one end to the table and at the other end to the
5 bed-plate, whereby the oil-trough may be placed beneath a wheel and then raised into engagement therewith, substantially as and for the purpose specified.

2. In an oil-bath for wheels, the bed-plate,
10 the table having folding legs hinged to the bed-plate and provided with an arm which engages the bed-plate when the legs are per-

pendicular thereto, the pawl hinged to the table and arranged to engage the bed-plate, the furnace mounted on said table and having the flues C C, and the segmental trough adapted to receive oil and the rim of a wheel and mounted on the furnace, all arranged to co-operate substantially as specified.

HENRY C. HANDLEN.

Witnesses:

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