

NIPPLE HOLDER.

947,713.

Patented Jan. 25, 1910.

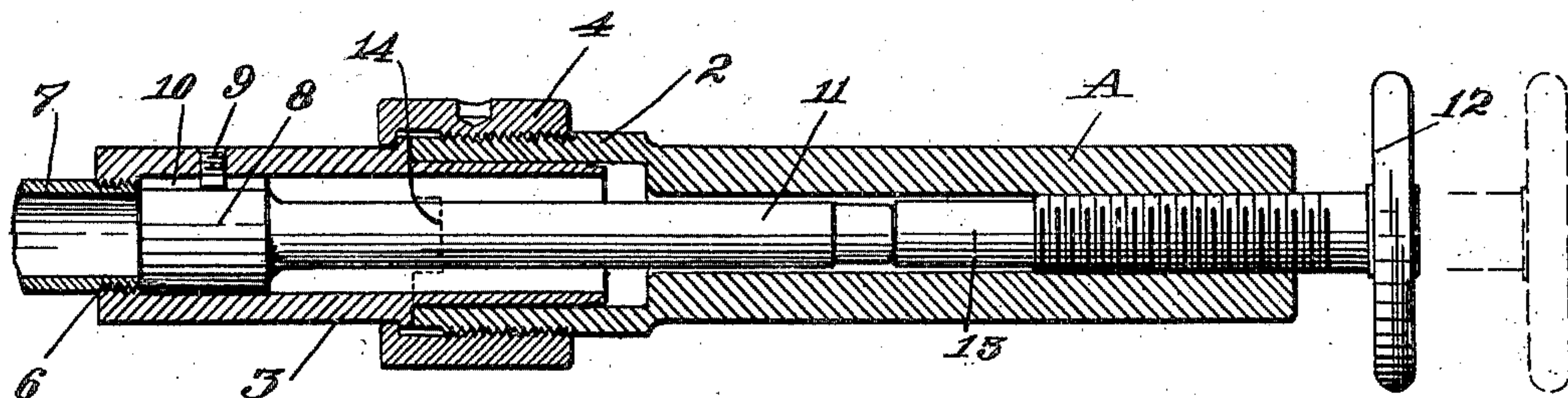


Fig. 1.

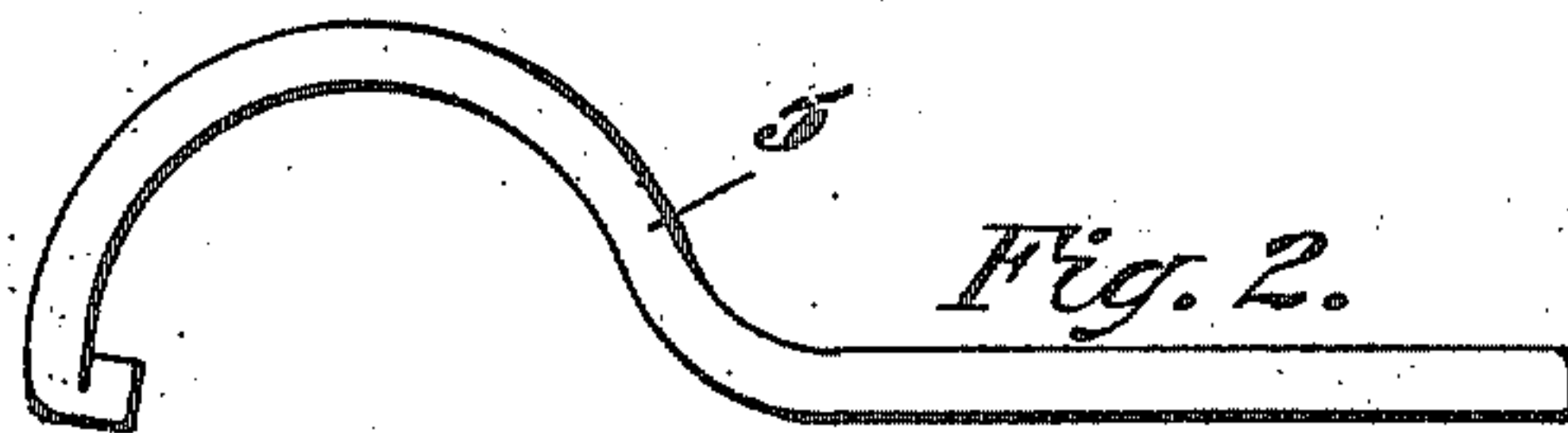


Fig. 2.

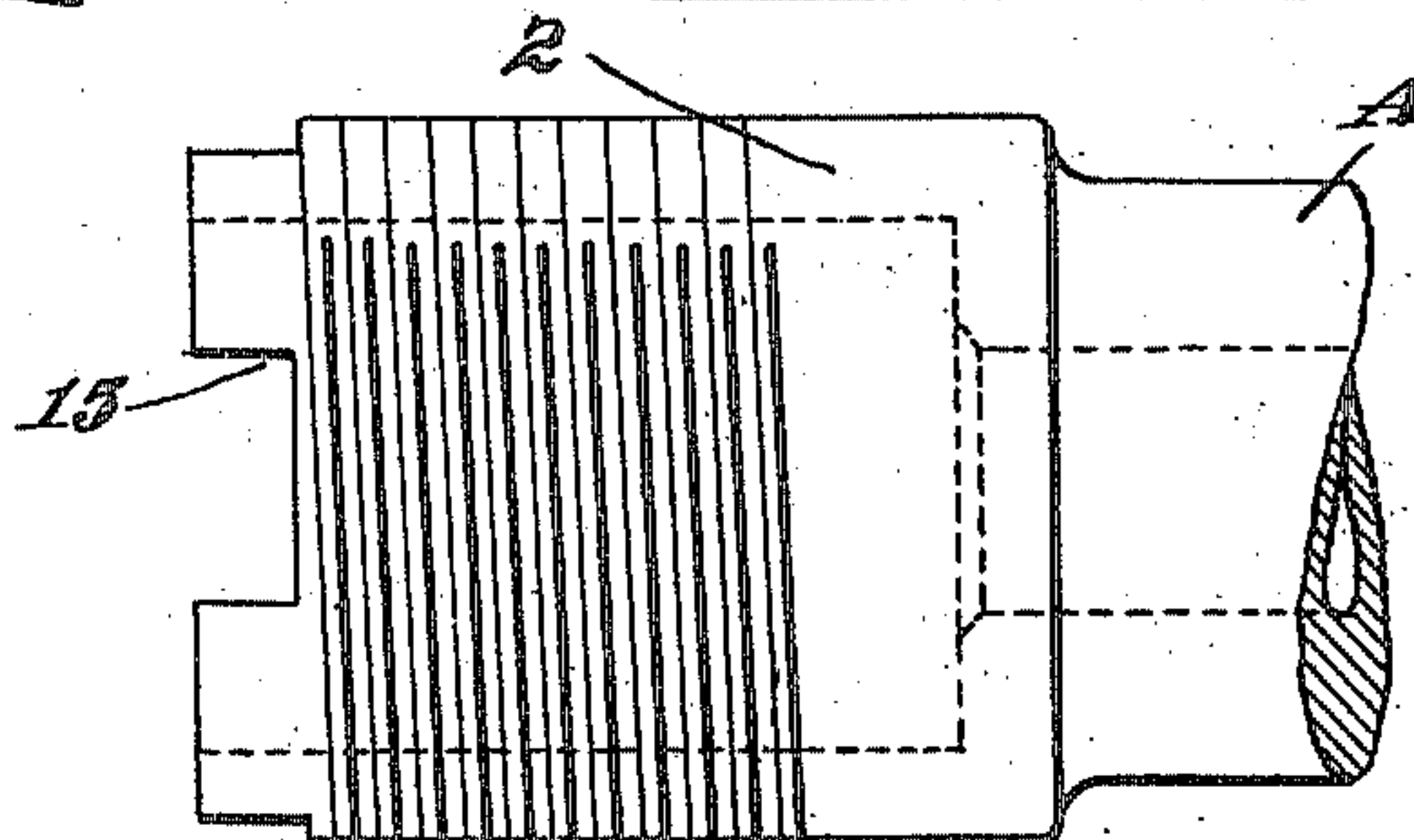
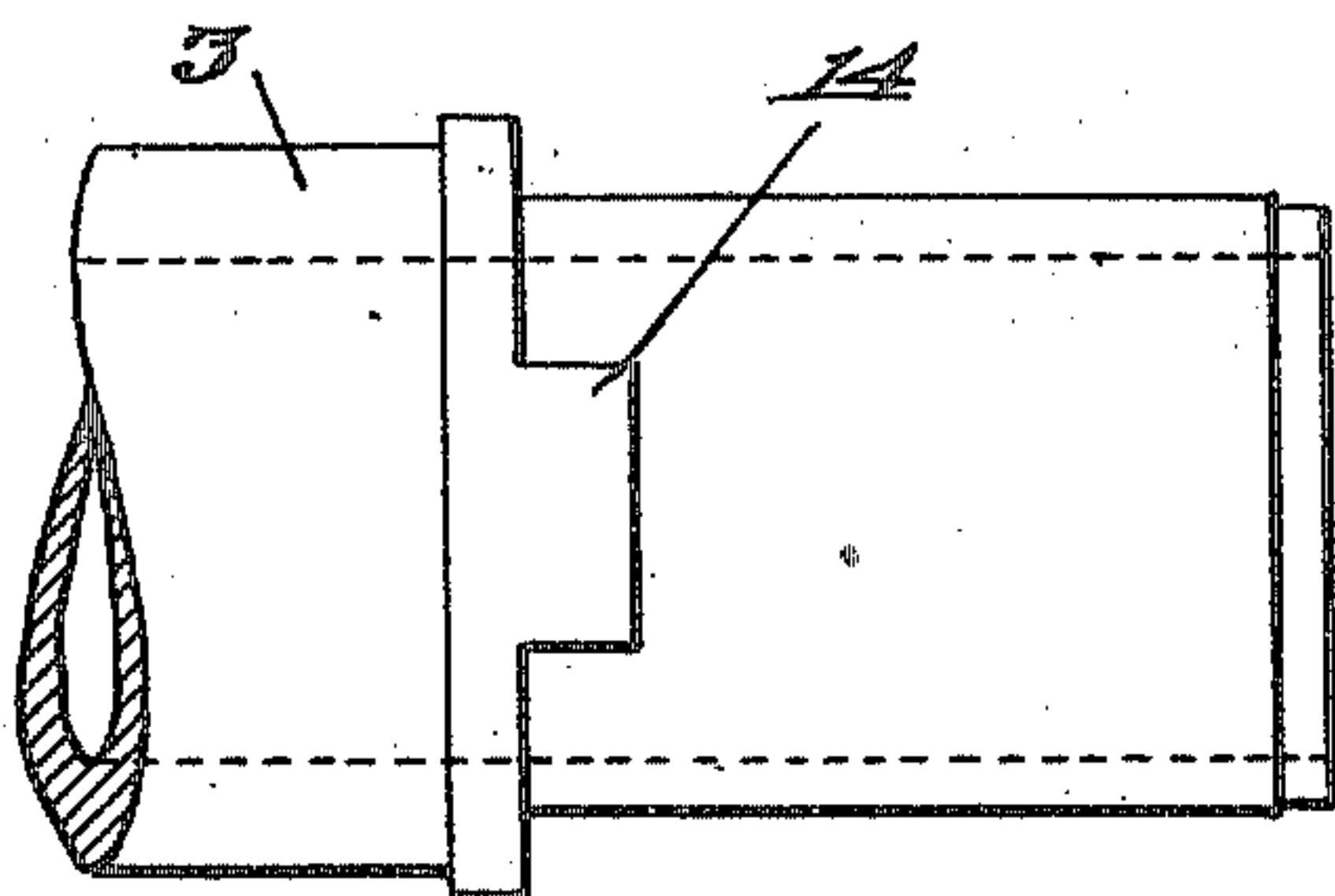


Fig. 3.

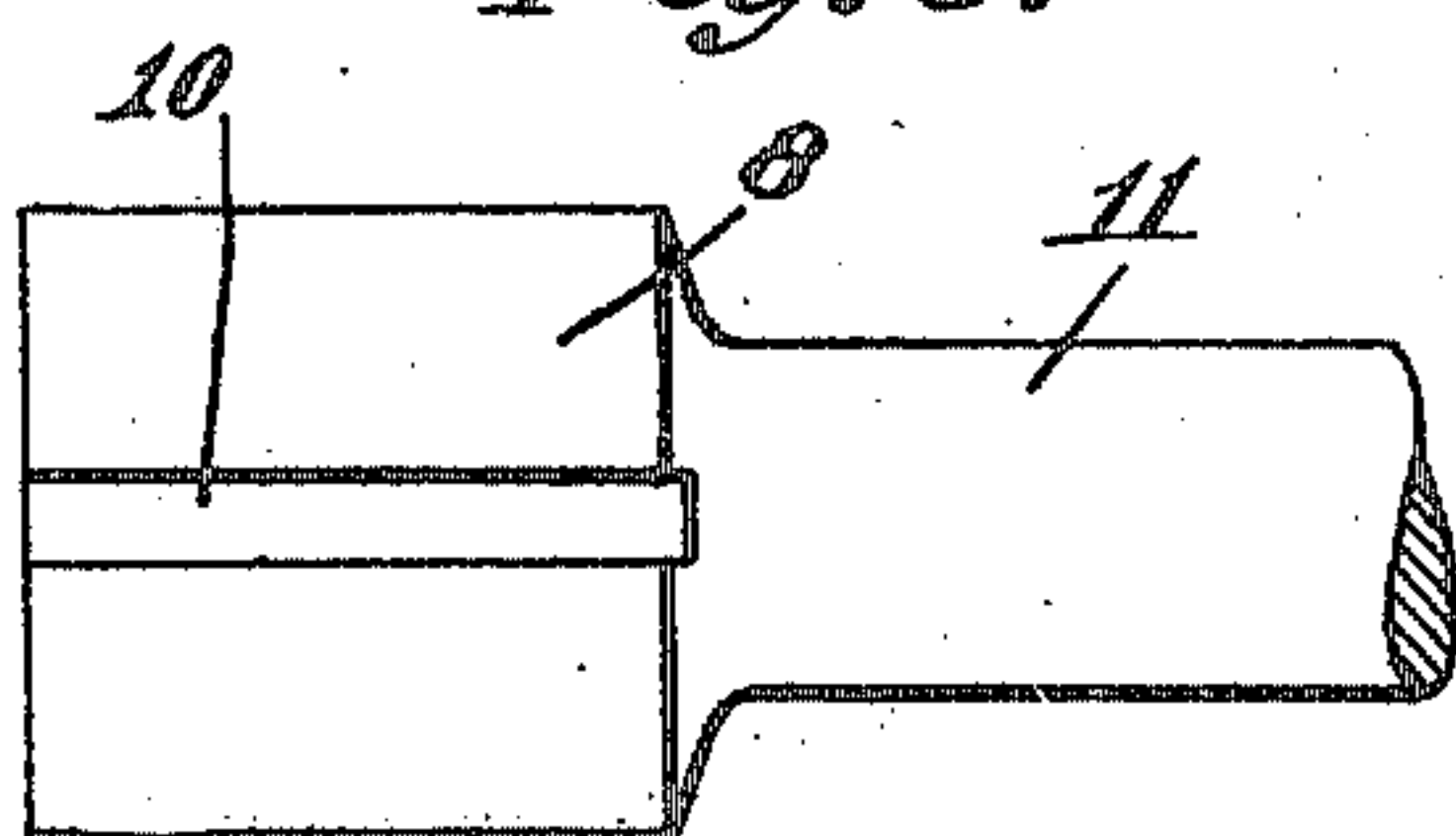


Fig. 5.

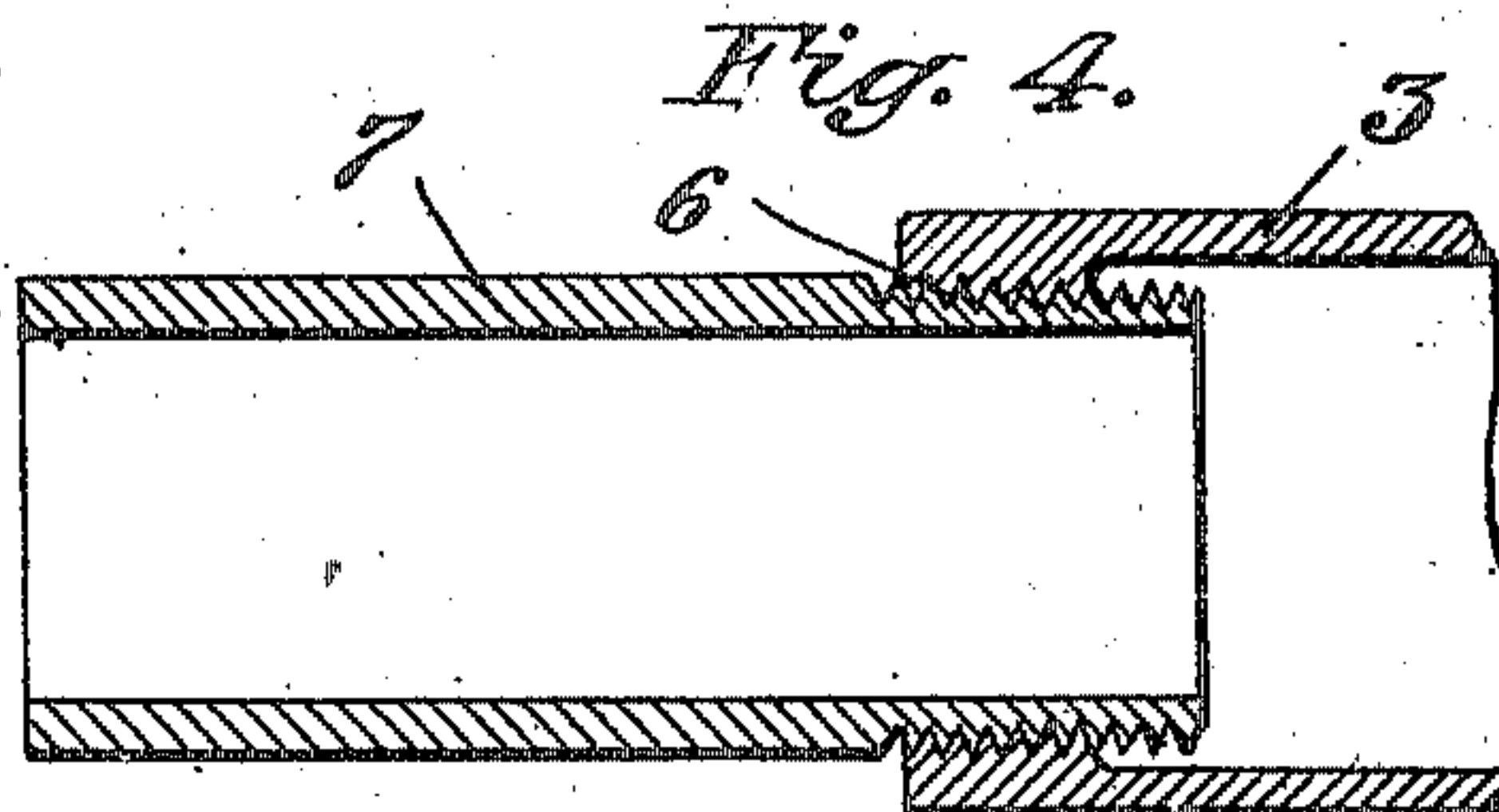


Fig. 6.

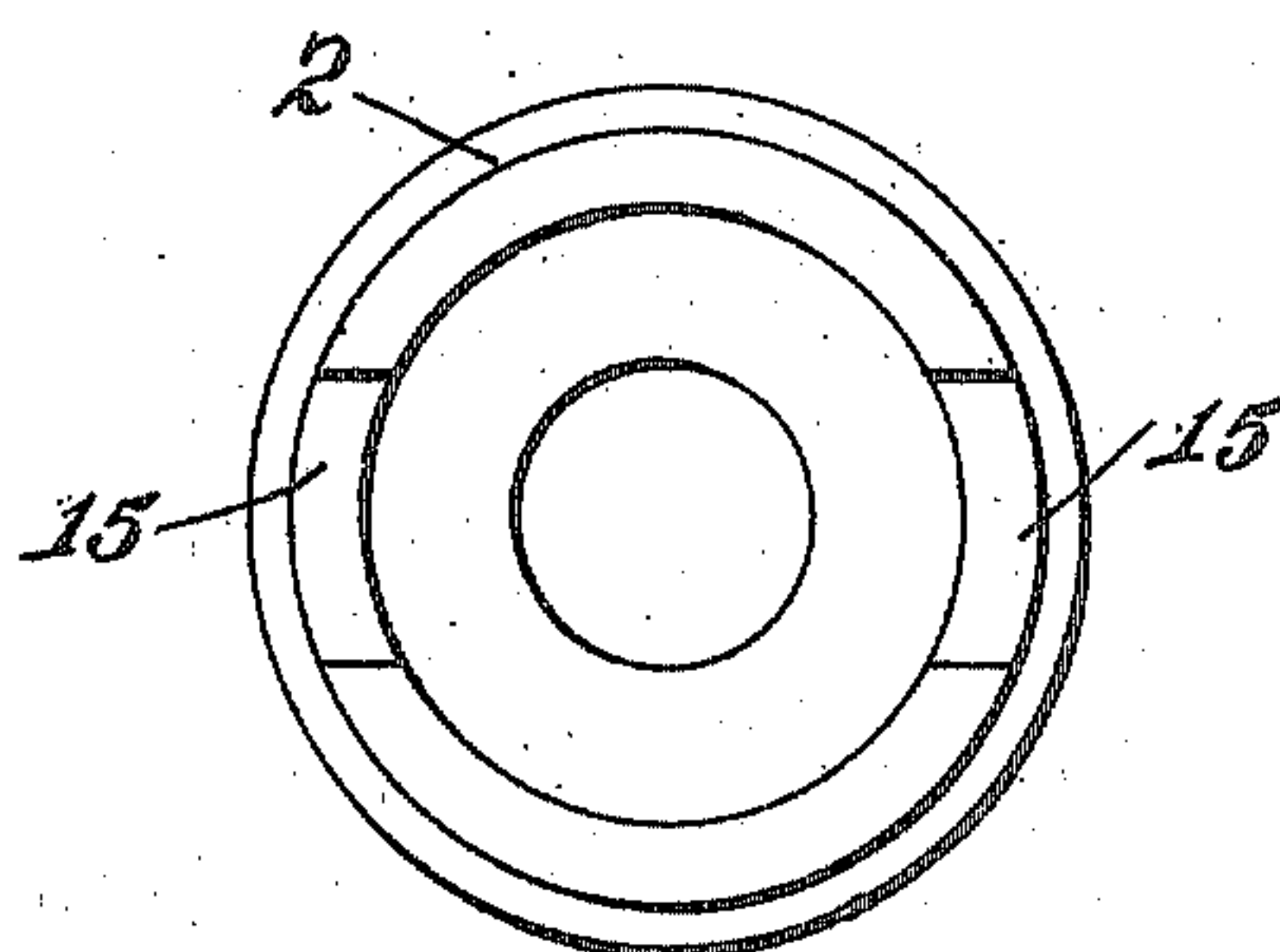


Fig. 7.

WITNESSES

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NIPPLE-HOLDER.

947,713.

Specification of Letters Patent.

Patented Jan. 25, 1910.

Application filed April 15, 1909. Serial No. 490,106.

To all whom it may concern:

Be it known that I, SAMUEL O. JOHNSON, citizen of the United States, residing at Elmhurst, in the county of Alameda and State of California, have invented new and useful Improvements in Nipple-Holders, of which the following is a specification.

My invention relates to nipple-holding devices, and pertains especially to a device for holding the threaded end of a nipple or like pipe fitting while the threads on the other end are being cut.

The object of the invention is to provide a simple, cheap, practical nipple-holder of the above named character, which will occupy but very little room in a kit, and which will readily be adaptable by providing a suitable set of dies for holding nipples of all sizes; suitable means being employed for the quick interchange of the dies, and the device comprising suitable means also for quickly locking the nipple to the holder.

The invention consists of the parts, and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a sectional view of the invention. Fig. 2 represents a suitable spanner wrench for operating the coupling gland. Fig. 3 is an elevation of a part of a full sized die. Fig. 4 is an elevation of a part of a corresponding full sized socket or handle. Fig. 5 is a fragment of a locking plunger. Fig. 6 is a sectional view showing the nipple in place in the die. Fig. 7 is an end view of the part shown in Fig. 4.

A represents a suitable tubular handle having an enlarged, exteriorly threaded socket portion 2 at one end, into which the reduced part of the die 3 removably fits, and to which it is suitably held by the locking gland 4 operated by a suitable wrench, as the spanner 5, of Fig. 2. These dies 3 are tubular in form, and removable and interchangeable, and the front end is provided with an inturned, threaded flange 6 adapted to receive the previously threaded end of a nipple 7, and hold the latter, while the threads on the other end of the nipple are being cut. The size of the opening of the flange 6 will vary in different dies, according to the diameter of the nipples to be held; a number of dies having threaded openings

at the front of different diameters being provided for each device.

In order to clamp the rear end of the nipple, and lock the thread of the nipple against the thread of the flange 6, suitable means are provided, as a plunger 8 which is prevented from turning, but is allowed a free sliding movement by suitable means as the screw 9 carried by the nipple, working in a longitudinal slot 10 in the head of the plunger.

The stem of the plunger 11 is suitably guided, and fits loose in the reduced tubular portion of the handle A, and it is reciprocated by suitable means as the hand-wheel 12, with its screw-threaded stem 13. The stem 11 is disconnected from the stem 13 as shown, so as to provide a suitable swivel movement, and accommodate the turning movement of the hand-wheel and stem 13 to the non-rotatable sliding movement of the stem 11.

In order to hold the die from turning, suitable means are provided, as the lugs 14 on the die, engaging corresponding notches 15 in the threaded head 2 of the holder.

In operation, a die 3 of suitable size is put into the handle A, and locked thereto by the gland 4. The plunger is backed up sufficiently to allow the nipple to be screwed into the die, and then the nipple is securely locked in place by suitably operating the handle 12 so as to press the plunger 8 firmly against the end of the nipple, thereby binding the threads of the nipple and die, so that the nipple cannot turn; the interlocking tongues and grooves 14—15 preventing the die also from turning so that by holding tight on the handle the nipple will be held while the threads are cut.

This device also enables a third nipple to be easily screwed into the end of a pipe without any danger of marring the projecting threads of the nipple. The moment that the wheel 12 is turned to back up the plunger 8, the device is easily detached from the nipple.

Having thus described my invention, what I claim and desire to secure by Letters Patent is—

1. An improved nipple holder comprising a tubular handle having an enlarged, exteriorly threaded socket formed in one end, a tubular die fitting said socket portion hav-

ing a reduced extension at one end to fit the
socket and having an inturned threaded
flange at the opposite end to receive the end
of the nipple, said die having an enlarged
circumferential flange at the junction of the
said reduced portion with the main part of
the die, said flange adapted to abut against
the end of the handle, a locking gland en-
gaging the exterior threads of the handle
having an inturned flange at one end adapt-
ed to fit over the circumferential flange of
the die to thereby clamp the die to the han-
dle, a slidable plunger cooperating with the
die to hold the nipple, said plunger having a
rigid stem extending from it, and a screw
operating in the handle having its forward
end to engage the stem of the plunger.

2. An improved nipple holder comprising
a handle having an enlarged socket formed
in one end, said handle having external
threads surrounding the socket portion; a
tubular die having means at one end for

holding the nipple and having its opposite
end provided with a reduced smooth sur-
faced tubular extension adapted to fit into
said socket, said die having, also, a circum-
ferential flange at the base of said extension;
a gland engaging the threads on the handle
having an inturned flange to engage the
flange on the die to thereby clamp the die to
the handle; a plunger operating in the die;
and a screw in line with the plunger and
adapted to actuate the same, said die and
the socket end of the handle having inter-
engaging lugs and notches whereby the die
is prevented from turning relatively to the
handle.

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

SAMUEL O. JOHNSON.

Witnesses:

THOS. O. JOHNSON,
ANTON BERTHESEN.