

No. 811,801.

PATENTED FEB. 6, 1906.

N. SMITH.
OIL CUP.

APPLICATION FILED MAR 10, 1905.

2 SHEETS—SHEET 1.

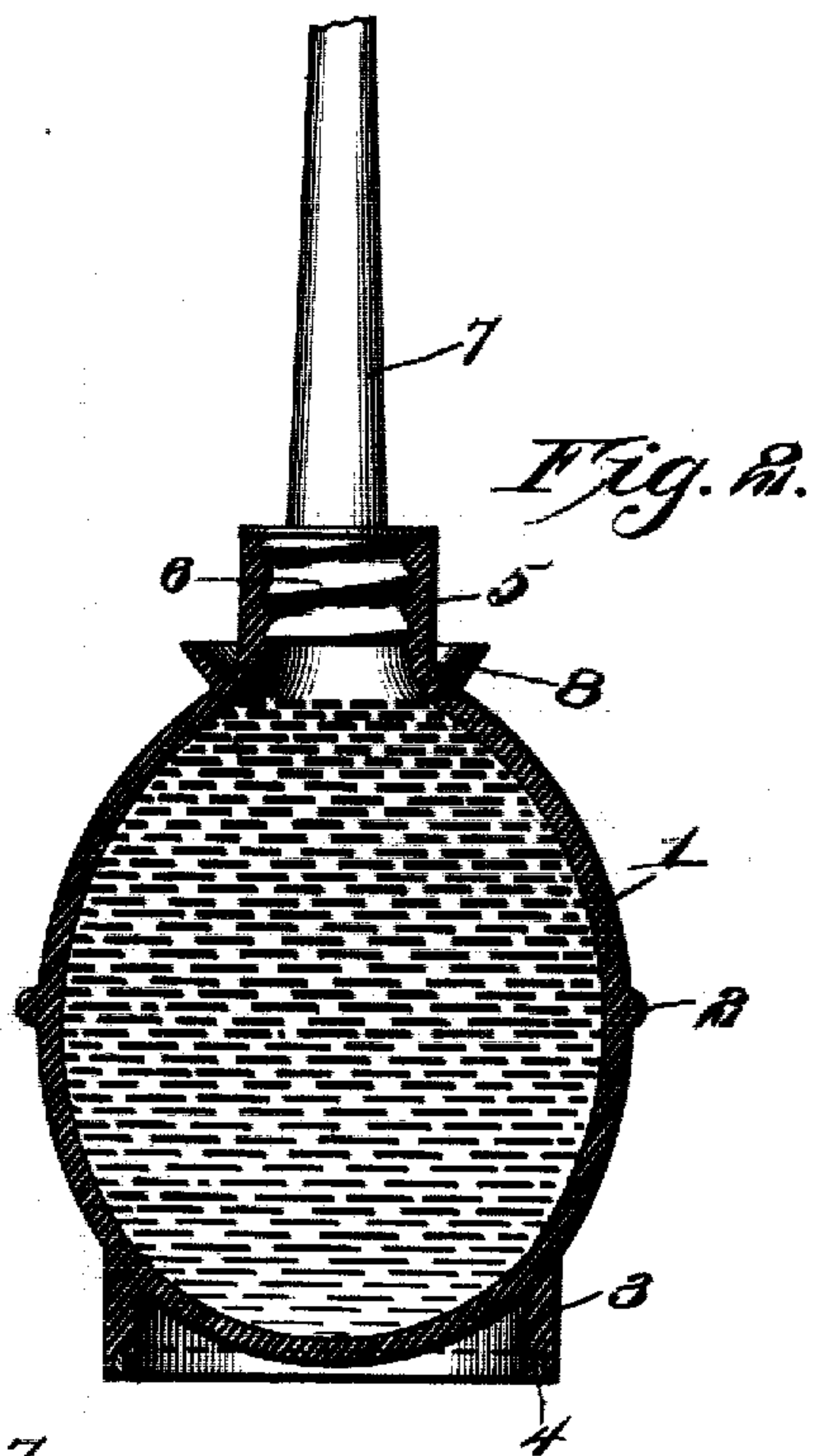
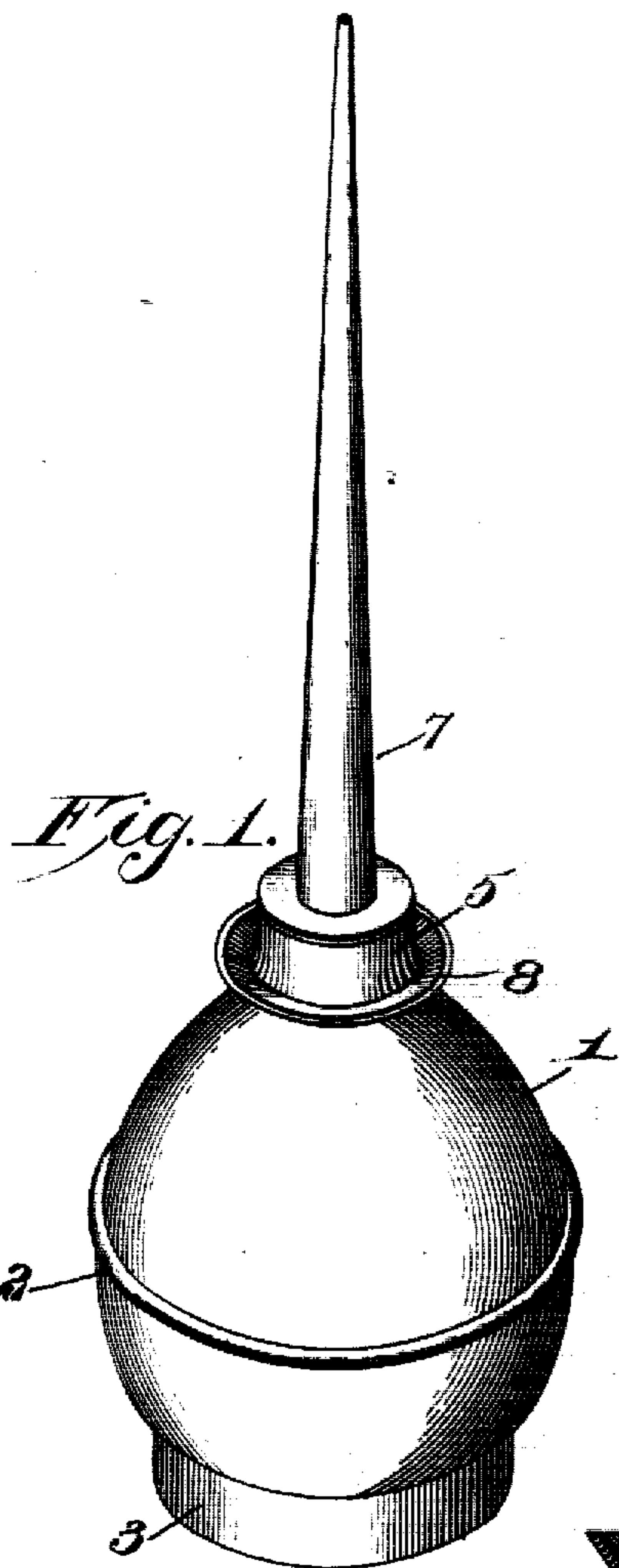
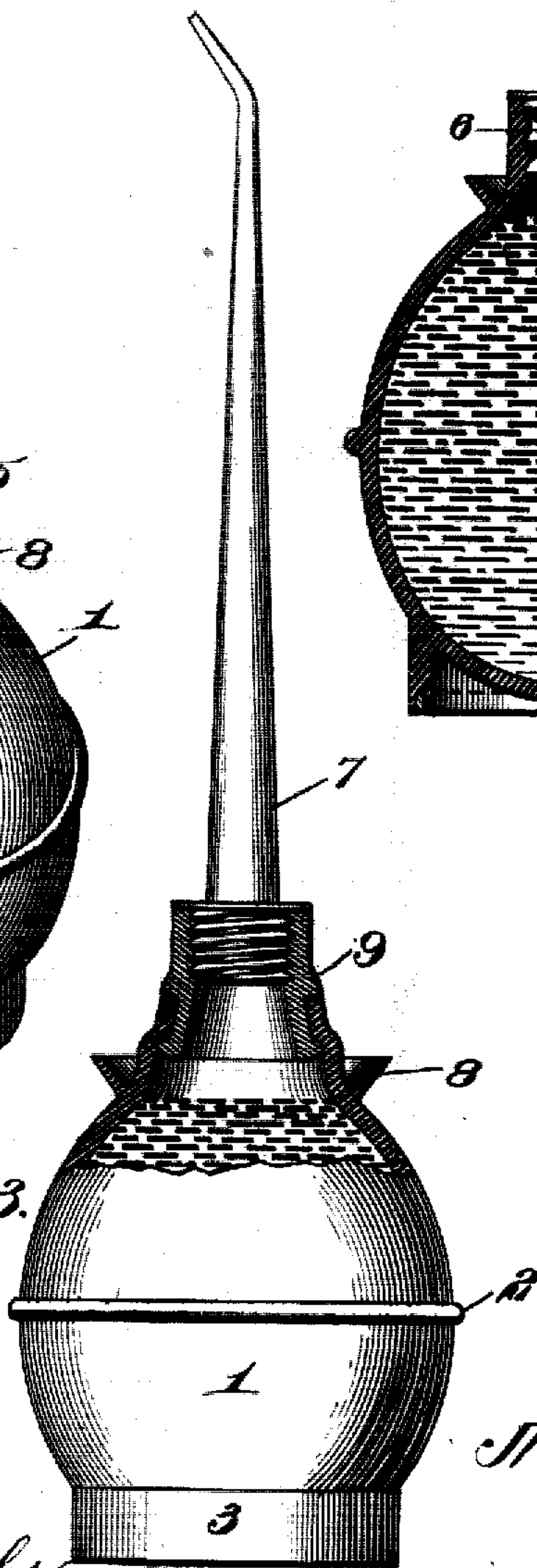


Fig. 3.



Witnesses

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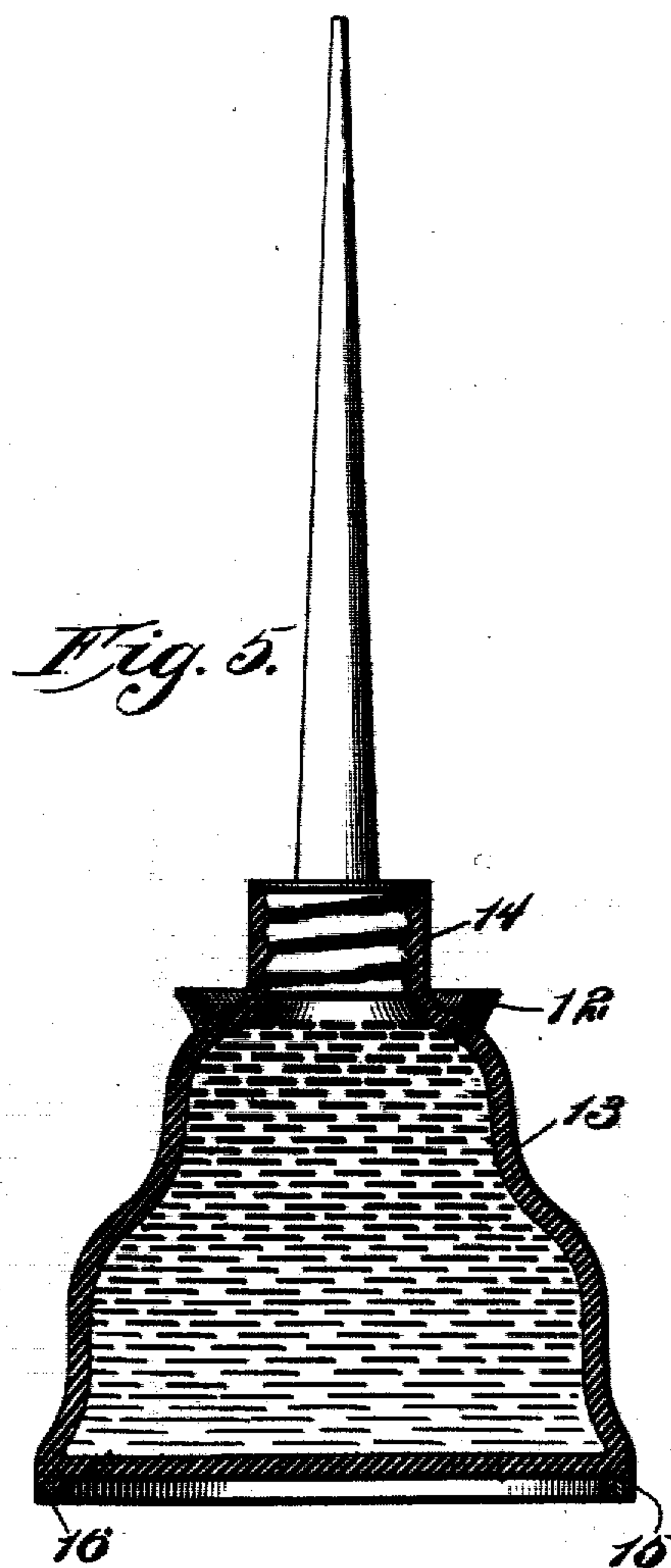
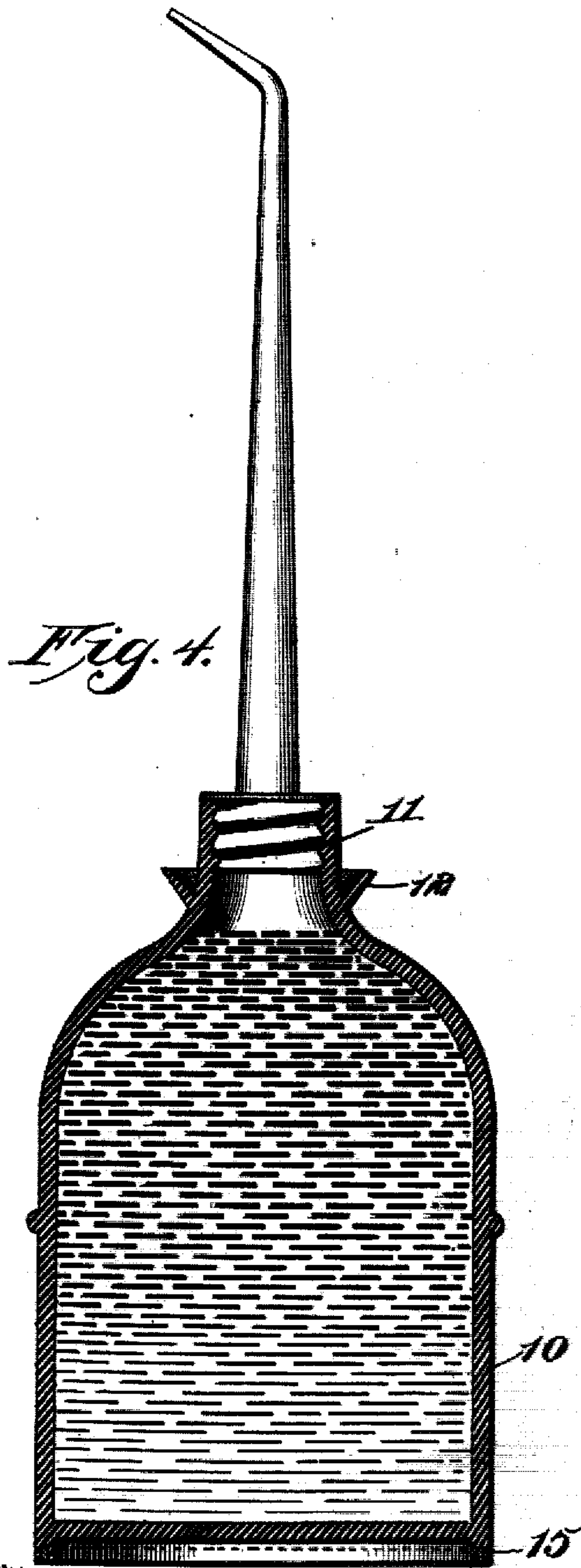
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UNITED STATES PATENT OFFICE.

NATHAN SMITH, OF STEVENSVILLE, MARYLAND.

OIL-CUP.

No. 811,801.

Specification of Letters Patent.

Patented Feb. 6, 1906.

Application filed March 10, 1905. Serial No. 249,421.

To all whom it may concern:

Be it known that I, NATHAN SMITH, a citizen of the United States, residing at Stevensville, in the county of Queen Anne and State of Maryland, have invented certain new and useful Improvements in Oil-Cups; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to hand-oilers; and its object is to provide a simple and inexpensive device of this character having means by which the contents of the oiler may be discharged in a steady stream and under considerable pressure and whereby the outflowing jet or stream can be projected a suitable distance, thus rendering the device particularly adapted for use in discharging oil upon moving portions of machinery to which access cannot be readily obtained.

Another object is to combine in one part a flexible receptacle, drip-cup, and support.

With the above and other objects in view the invention consists of a contractible bulb preferably formed of rubber and having an outlet-tube detachably connected thereto. A supporting-flange is formed integral with the bulb and may be suitably reinforced to protect it from wear. A drip-cup is also formed integral with the bulb and is so disposed as to prevent oil or other liquid which may accumulate upon the tube from flowing down the sides and that portion of the bulb which is adapted to be gripped in the hand of the operator.

The invention also consists of the further novel constructions and combinations of parts hereinafter more fully described, and pointed out in the claim.

In the accompanying drawings I have shown the preferred forms of my invention.

In said drawings, Figure 1 is a perspective view of the oiler. Fig. 2 is a vertical section therethrough, a portion of the outlet-tube being removed. Fig. 3 is a view, partly in elevation and partly in section, of a modified form of my oiler. Fig. 4 is a section through a modified form of oiler, and Fig. 5 is a similar view of another modification.

Referring to the figures by numerals of reference, 1 is a bulb of rubber having a centrally-disposed annular bead 2 thereon and

provided at one end with a circular flange 3, adapted to support the bulb in an upright position. As shown in the drawings, this flange is provided with a reinforcing-ring 4, preferably formed of a hoop or ring of spring metal, which is seated within the flange and is adapted to prevent wear upon the flange. A tubular extension 5 is formed integral with the bulb at its upper end, and the inner wall of this extension is adapted to engage the threaded end 6 of an outlet-tube 7. This tube may be of any suitable size and proportions. A drip-cup 8 is formed integral with the bulb 1, and consists of an inclined annular flange which surrounds the lower portion of extension 5. It will be obvious that this cup will receive any liquid which may accumulate upon the tube 7 and flow downward thereon, thereby preventing the outer surface of the bulb from becoming oily.

In using this oiler the bulb 1 is compressed so as to expel most of the air therefrom, and after inserting the end of the tube 7 into the oil the bulb can be released and by expanding will draw the oil thereinto. When it is desired to discharge the oil, it is merely necessary to compress the bulb, and as long as the same is subjected to pressure the liquid contained in the bulb will be discharged through the tube 7 in a small stream or jet which will be projected for a suitable distance. When the oiler is not in use, it can be supported in an upright position by the flange 3. It will be understood that wear upon the flange is prevented by the band 4. If desired, in lieu of this band other wear devices may be employed. Moreover, instead of placing the tube 7 in direct engagement with the bulb the bulb may be secured to an internally-threaded metal extension 9, adapted to be engaged by the tube. I have shown this construction in Fig. 3. The bulb may be permanently connected to the extension by means of cement or can be held in engagement therewith by contracted pressure. The bead hereinbefore referred to serves to hold the bulb-faces out of contact with the wall of a shelf, box, or any other structure upon which the oiler may be placed, thereby protecting the faces of the bulb from injury through rubbing against an unyielding surface.

While I preferably form the body of the

oiler as shown in Figs. 1, 2, and 3, I can, if desired, make said bodies cylindrical, as shown at 10 in Fig. 4, the upper portion of the body being contracted and merging into the extension 11, about which the drip-cup 12 is provided, or, if desired, the body of the oiler can be substantially frusto-conical in form, as shown at 13 in Fig. 5, the wall of the body being waved and merging into its tubular extension 14. In either case the body is supported upon a flange 15, which is formed integral therewith and is provided with a reinforcing-ring 16, of spring metal, which is adapted to prevent wear upon the flange.

15 In the foregoing description I have shown the preferred forms of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

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

A hand-oiler comprising a contractible, flexible bulb, an integral flange extending from the bottom thereof and adapted to support the same in an upright position, a metallic ring embedded within the flange and having one edge flush with the bottom of the flange, said ring constituting a wear device, and an outlet-tube detachably connected to the top of the bulb, the bottom of said oiler being adapted to be forced inward at points surrounded by the ring.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

NATHAN SMITH.

Witnesses:

W. T. FITZ GERALD,
AUGUST PETERSON.