

(No Model.)

W. H. & W. J. CLARK.

PUMP.

No. 301,045.

Patented June 24, 1884.

Fig. 1.

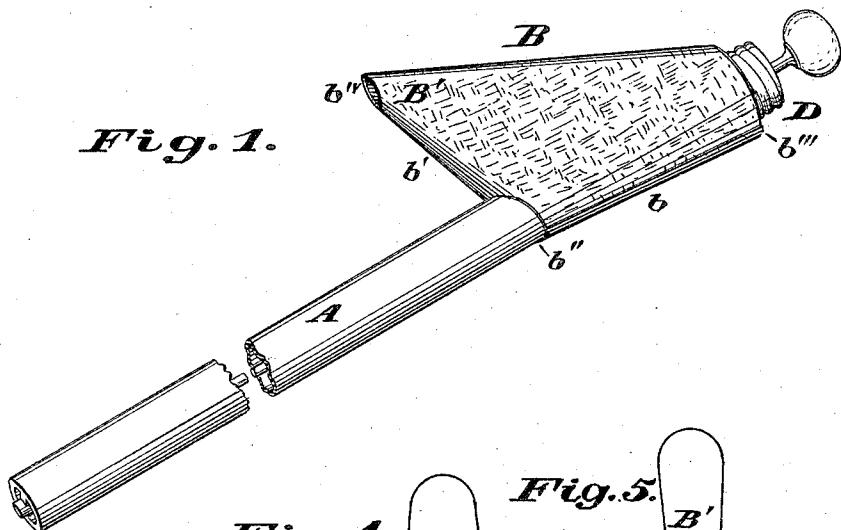


Fig. 5.

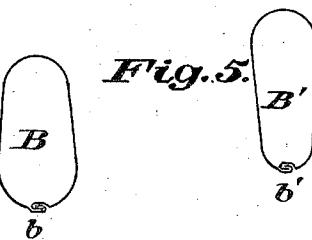


Fig. 4.

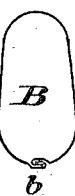


Fig. 2.

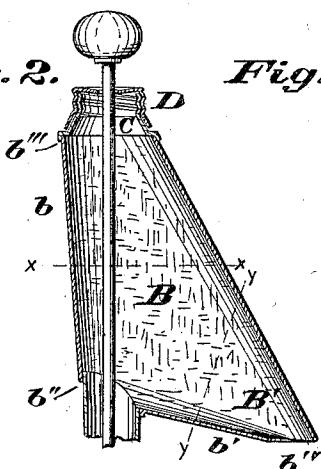
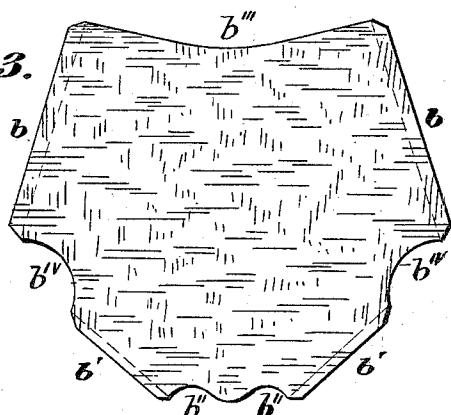


Fig. 3.



Inventors:

William H. Clark

William J. Clark

By Knight Bros. Atts.

Attest:

Edmund Stee
Geo. W. Sheddock

UNITED STATES PATENT OFFICE.

WILLIAM H. CLARK AND WILLIAM J. CLARK, OF SALEM, OHIO.

PUMP.

SPECIFICATION forming part of Letters Patent No. 301,045, dated June 24, 1884.

Application filed January 26, 1884. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM H. CLARK and WILLIAM J. CLARK, both of Salem, Columbiana county, Ohio, have jointly invented 5 a new and useful Improvement in Pumps, of which the following is a specification.

Our invention, while applicable to pumps generally, is more particularly designed for that class of portable pumps that are employed to empty vessels containing burning-fluid, and known commercially as "fluid-pumps."

Our improvement relating exclusively to the expanded top chamber or head of the pump-barrel and its discharge-spout, the description 15 and claims will be restricted to those members.

Our pump-head or top chamber is so formed, arranged, and constructed that part of it also 20 serves the purpose of a spout or discharge-nozzle, and thereby obviates the necessity of a separately manufactured and attached spout, which, as commonly made and attached to the pump-chamber, has heretofore involved additional expense, and is furthermore objectionable from its liability to become detached or loosened by use.

The object of our invention is to produce a chamber that shall be self-draining, having a 25 guide-cap orifice thrown in proper alignment with the barrel-axis, and adapted to form a durable rigid attachment without a boss or brace, a boss or brace being necessary heretofore.

30 In the accompanying drawings, Figure 1 is an external view of a pump embodying our invention, the middle portions being broken away for convenience of representation. Fig. 2 is an axial section of the head or chamber 35 at top of the pump-barrel. Fig. 3 represents a piece of sheet metal cut or stamped to the

form proper for the "blank" out of which such head or chamber is manufactured. Figs. 4 and 5 are sections of the head on the lines ⁴⁵ *x x* and *y y*, respectively.

A may represent a tube such as constitutes the shaft or barrel of any fluid-pump. To such barrel there is permanently attached, by soldering or riveting, our improved head or chamber B, which is formed by bending a ⁵⁰ sheet-metal blank, such as shown in Fig. 3, into the form of a flattened triangular box or funnel, whose edges *b b* and *b' b'* are double-seamed or lapped and soldered, leaving orifices *b'' b''' b^{iv}* at its respective angles. Of the ⁵⁵ orifices, orifice *b''* enables attachment to and communication with the pump-barrel, while orifice *b'''* affords a convenient place of attachment for a screw-threaded neck, C, which receives the perforate guide or cap D. The orifice *b^{iv}* serves as the ventage or outlet of a discharge spout or nozzle, B', which is a component part of and in one integral piece with the chamber proper, B. (See Figs. 1, 2, 4, and 5.) The blank, Fig. 3, is so cut or stamped ⁶⁰ as to present the edges or margin of the orifice *b''* obliquely to the barrel, (instead of horizontally across, as heretofore.)

We claim as new and of our invention—

1. A blank for forming a pump-head, having ⁷⁰ edges *b b' b' b*, and recesses between the edges to form orifices *b'' b''' b^{iv}*, as set forth.

2. A sheet-metal pump-head of triangular profile, having barrel-orifice *b''*, cap-orifice *b'''*, and spout-orifice *b^{iv}*, as set forth.

In testimony of which invention we hereunto set our hands.

WILLIAM H. CLARK.
WILLIAM J. CLARK.

Attest:

SHELDON PARKS,
MARY A. CLARK.