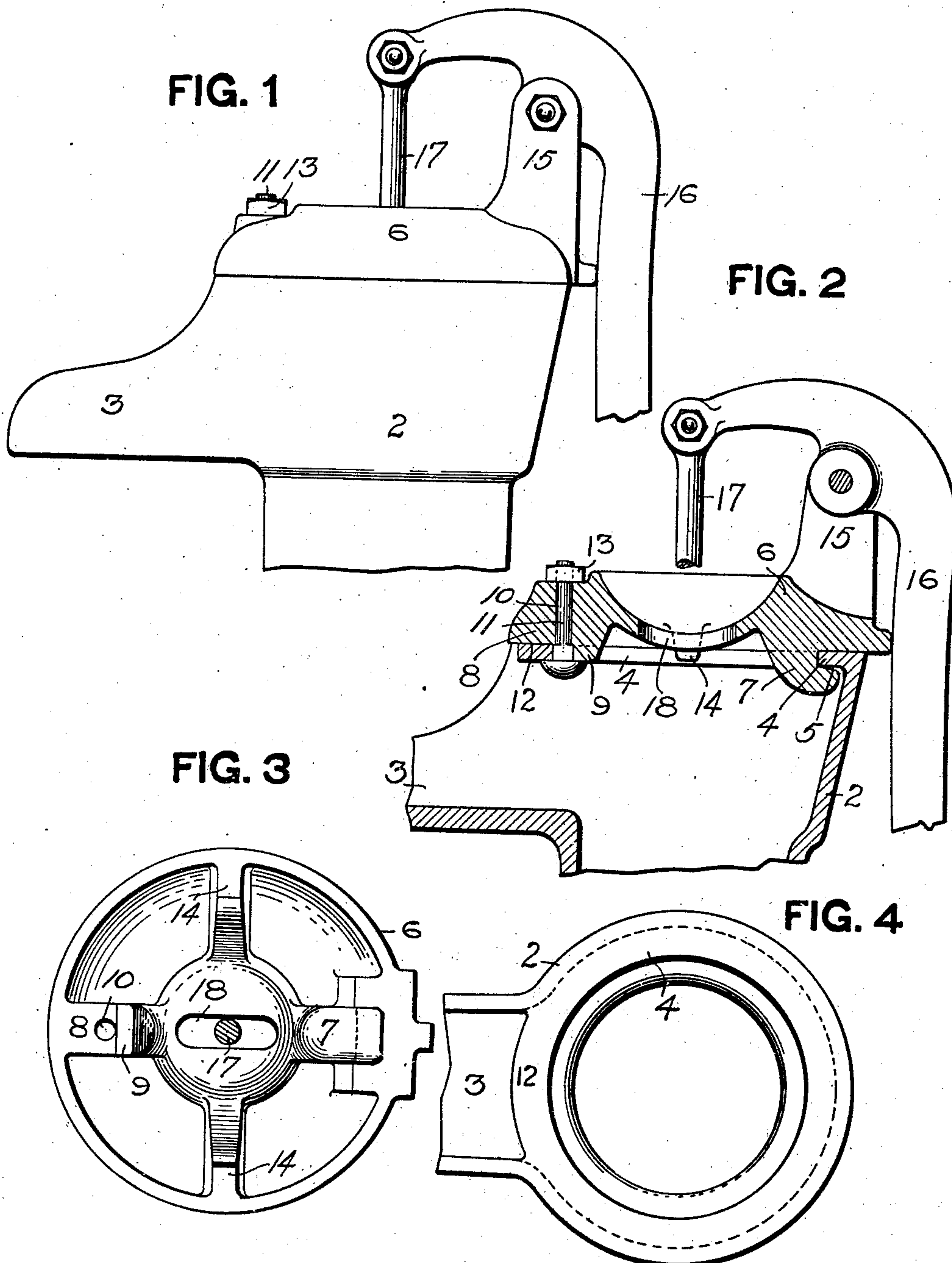


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PUMP.
APPLICATION FILED AUG. 3, 1908.

929,048.

Patented July 27, 1909.



WITNESSES.
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UNITED STATES PATENT OFFICE.

DANIEL STRICKLER, OF COLUMBIANA, OHIO, ASSIGNOR TO COLUMBIANA PUMP CO., A
COPARTNERSHIP.

PUMP.

No. 929,048.

Specification of Letters Patent.

Patented July 27, 1909.

Application filed August 3, 1908. Serial No. 446,625.

To all whom it may concern:

Be it known that I, DANIEL STRICKLER, a resident of Columbiana, in the county of Columbiana and State of Ohio, have invented
5 a new and useful Improvement in Pumps; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to pumps.

In the manufacture of cast metal pumps
10 the cap is secured to the body of the pump so as to be readily removed therefrom in case of repairs, and as the pump handle is fulcrumed in said cap it is very essential that said cap be secured in such a manner as to guard against
15 its working loose or becoming disconnected from the pump body due to the strain put upon it in the operation of pumping.

The object of my invention is to provide means for securing the cap securely to the
20 pump and it consists in the novel features hereinafter set forth and claimed.

In the accompanying drawing Figure 1 is a vertical elevation of the upper portion of my improved pump; Fig. 2 is a like sectional
25 view; Fig. 3 is an inside view of the cap; Fig. 4 is a plan view of the pump body, the cap being removed.

The numeral 2 designates a portion of a suitable pump-body formed of cast metal and provided with the spout 3. At the upper
30 end of the pump-body 2 is the inwardly projecting flange 4 forming an annular shoulder 5.

The cap 6 has the lug 7 adapted to engage
35 the lower face of the flange 4. At the opposite side of the cap 6 is the lug 8 with the heel 9 formed thereon. An opening 10 is formed in the cap passing through the lug 8 to receive the bolt 11. When the cap is adjusted
40 on the pump body with the lug 7 in engagement with the flange 4 and the lug 8 resting on the upper rim 12 of the pump-body, the head of the bolt 11 engages the flange 4 and the lower face of the heel 9. A nut 13 on the
45 bolt 11 binds the cap in place on the pump-body and by screwing up on said nut the connection between the parts is made very secure and rigid. Guide lugs 14 on the cap 6 engage the flange 4 and help to center said cap.

50 The lugs 15 form the fulcrum for the handle 16 and the inner end of said handle is connected to the suction-rod 17 which passes down through the opening 18 in the cap 6.

While the cap is securely held in the above manner it may be readily removed for pur- 55
poses of making repairs to the pump, and by slightly loosening the nut 13 the cap may be turned easily to adjust the handle with reference to the spout, and again secured in that position.

By my invention the cap is so secured that the pumping action has practically no effect to loosen or displace said cap and a very rigid strong and durable construction is provided.

What I claim is:

1. The combination of a pump body having a shoulder at its upper end, a cap having a projection engaging said shoulder, and a bolt engaging with its head the lower face of said cap and said shoulder and passing up
65 through said cap.

2. The combination of a pump-body having an annular shoulder at its upper end, a cap having a projection engaging said shoulder, and a bolt engaging with its head the
75 lower face of said cap and said shoulder and secured to said cap.

3. The combination of a pump-body having an annular shoulder at its upper end, a cap having a projection engaging said shoulder, a lug on said cap having an opening formed therein, a heel on said lug, and a bolt passing through said opening, the head on
80 said bolt engaging said heel and said shoulder.

4. The combination of a pump-body having an annular shoulder at its upper end, a cap having a projection at one side engaging said shoulder, a lug at the opposite side of said cap having an opening therein, a heel on said lug, and a bolt passing through said
85 opening, the head of said bolt engaging said heel and said shoulder.

5. The combination of a pump-body having an annular shoulder at its upper end, a cap having a projection engaging said shoulder, a bolt engaging with its head the lower
95 face of said cap and said shoulder, and guide lugs on said cap adapted to engage said shoulder.

In testimony whereof, I the said DANIEL STRICKLER have hereunto set my hand.

DANIEL STRICKLER.

Witnesses:

ELIZABETH LODGE,
F. A. WITT.