

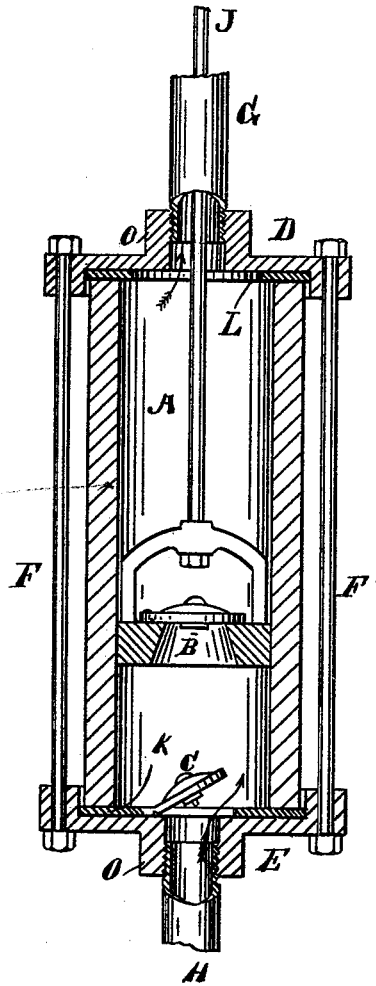
L. D. RAILSBACK.

PUMP.

No. 183,704.

Patented Oct. 24, 1876.

*Stone,  
Baked clay, or  
Glass*



*Witnesses;*  
*D. F. Randolph*  
*O. S. Whitney*

*Inventor*  
*Lafayette D. Railsback*  
*Per E. O'Hern*  
*his Atty*

# UNITED STATES PATENT OFFICE.

LAFAYETTE D. RAILSBACK, OF INDIANAPOLIS, INDIANA.

## IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. **183,704**, dated October 24, 1876; application filed August 15, 1876.

*To all whom it may concern:*

Be it known that I, LAFAYETTE D. RAILSBACK, of Indianapolis, county of Marion, State of Indiana, have invented a new and useful Improvement in Pumps, of which the following is a description, reference being had to the accompanying drawings.

Previous to my invention the use of stone or baked-clay cylinders has been frequently employed by manufacturers of wooden pumps, and to such class of pumps their inventions have been especially adapted, and to such I make no claim.

My invention consists of a stone or baked-clay cylinder, which is provided with iron flanges at the top and bottom, which are united together by means of bolts or bolt-rods. The flanges at the top and bottom are provided with screw-threads, to which are attached iron pipes, such as are used in driven wells; and the object of my invention is to prevent or obviate the taste of iron in the water, which is common when iron cylinders are used with iron pipes.

In the drawings I have represented my improved cylinder and its connections with iron pipes above and below, and for convenience of illustration have represented the cylinder in section.

A represents the stone or baked-clay cylinder, in which operates the piston-valve B by means of the rod J. At the top and bottom of the cylinder A are iron flanges D and E, which are secured together, with leather packing-rings K L between them and the stone cylinder, by means of the bolts F F', which pass through ears formed on the flanges D E, in the manner shown. Each flange D and E is provided with sockets O, which are formed

to receive the iron pipes H and G, in the manner shown.

By this method of uniting the stone or baked-clay cylinder to iron pipes I am enabled to remove the obnoxious taste of the water that passes through the cylinder, for this simple reason: the piston or sucker working in a cast-iron cylinder, when at rest, allows a certain amount of oxidation to take place in the cylinder, and when the sucker or piston valve is worked the friction removes this oxide, and allows it to impregnate the water, while in the stone cylinder no such impurities can be formed to impregnate the water.

I am aware that stone cylinders or cylinders formed of baked clay are old, and that there are some four different patents on them and their connections with wooden pumps, which were granted to A. N. Barkhurst, and such inventions I do not claim.

What I claim as new, and wish to secure by Letters Patent, is—

The combination, in a pump having a stone, baked-clay, or glass cylinder, A, in which operate suitable valves B C, as shown, of the iron pipes H G, secured to said cylinder by means of iron flanges D E, said flanges being provided with screw-threads to receive the pipes, and united together by bolts F F', all arranged in the manner and for the purposes set forth and described.

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

LAFAYETTE D. RAILSBACK.

Witnesses:

E. O. FRINK,  
E. C. WHITNEY.