H. H. COLSON.

PUMP.

APPLICATION FILED MAY 29, 1916.

1,253,003. Patented Jan. 8, 1918.

Fig. 1.

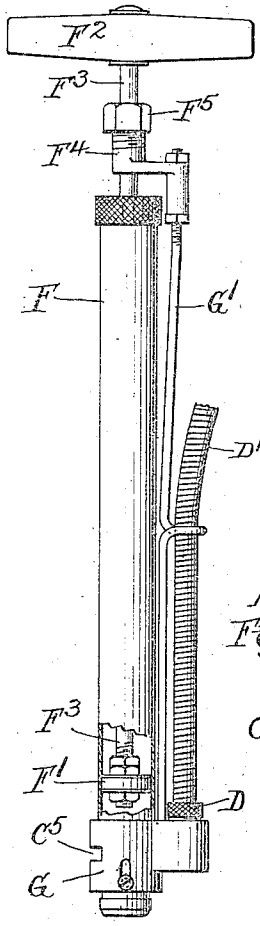


Fig. 3.

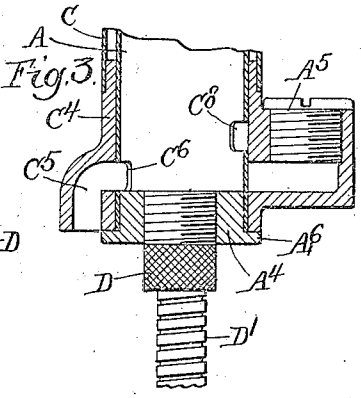
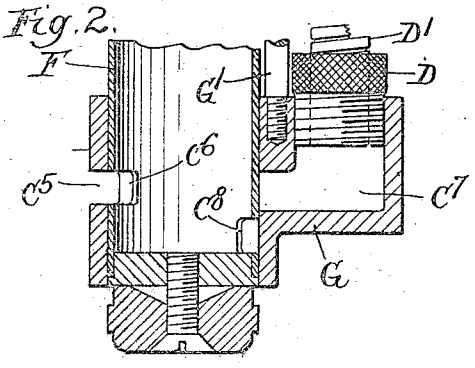


Fig. 2.



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UNITED STATES PATENT OFFICE.

HENRY H. COLSON, OF CHICAGO, ILLINOIS.

PUMP.

1,253,003. Specification of Letters Patent. Patented Jan. 8, 1918.

Application filed May 29, 1916. Serial No. 100,536.

To all whom it may concern:

Be it known that I, HENRY H. COLSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Pumps, of which the following is a specification.

My invention relates to improvements in pumps such as are particularly intended for use in connection with greases, non-fluid oils and the like, and it has for one object to provide a new and improved form of pump which may be used for sucking in and pumping out greases, particularly such greases as are used with automobile transmissions, universal joints and the like. Another object is to provide a new and improved form of pump which is durable, rigid, easily repaired, and which will be conveniently and easily assembled and disassembled. Other objects of my invention will appear from time to time in the specification.

Figure 1 is a side elevation with parts broken away;

Fig. 2 is a vertical section through the bottom of the pump illustrated in Fig. 1 showing the valve arrangement;

Fig. 3 is a vertical section through the valve end of the pump showing a hose pipe connection.

Like parts are indicated by like figures throughout all the drawings.

F is the pump cylinder. Slidable in it is a piston F^1 carried by piston rod F^3 with handle F^2. F^4 is a friction sleeve slidable on the piston rod F^3 the frictional resistance of which may be adjusted by means of the nut F^5.

G is a valve housing slidable on the end of the cylinder F. It is controlled by means of a stem G^1 extending to and anchored on the member F^4. C^6 is a port in the cylinder F adapted sometimes to be in register with the port C^5 in the valve housing G. C^8 is a port in the cylinder F adapted sometimes to communicate with the chamber C^7. The chamber C^7 is apertured as indicated. A^5 is a plug closing the aperture screwthreaded so that it may be removable. B is a screw-threaded pipe connection. It may take the place of the pipe D^1. B^5 is a hose pipe communicating with the pipe connection.

I claim:

1. A pump comprising a ported barrel, a piston and piston rod slidable therein, a valve sleeve slidable on the barrel having intake and exhaust passages, the ports being arranged along the axis of the barrel in opposition to the intake and exhaust passages, and a friction driving connection between the piston rod and the valve sleeve independent of the barrel.

2. A pump comprising a ported barrel, a piston and piston rod slidable therein, a valve sleeve slidable on the barrel having intake and exhaust passages, the ports being arranged along the axis of the barrel in opposition to such intake and exhaust passages, and a friction driving connection between the piston rod and the valve sleeve independent of the barrel, such driving connection comprising a sleeve slidable upon the piston rod, and a connecting member interposed between the sleeve and the valve housing.

In testimony whereof, I affix my signature in the presence of two witnesses this 20th day of May, 1916.

HENRY H. COLSON.

Witnesses:
LAUREL M. DOREMUS,
MINNIE M. LINDENAU.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."