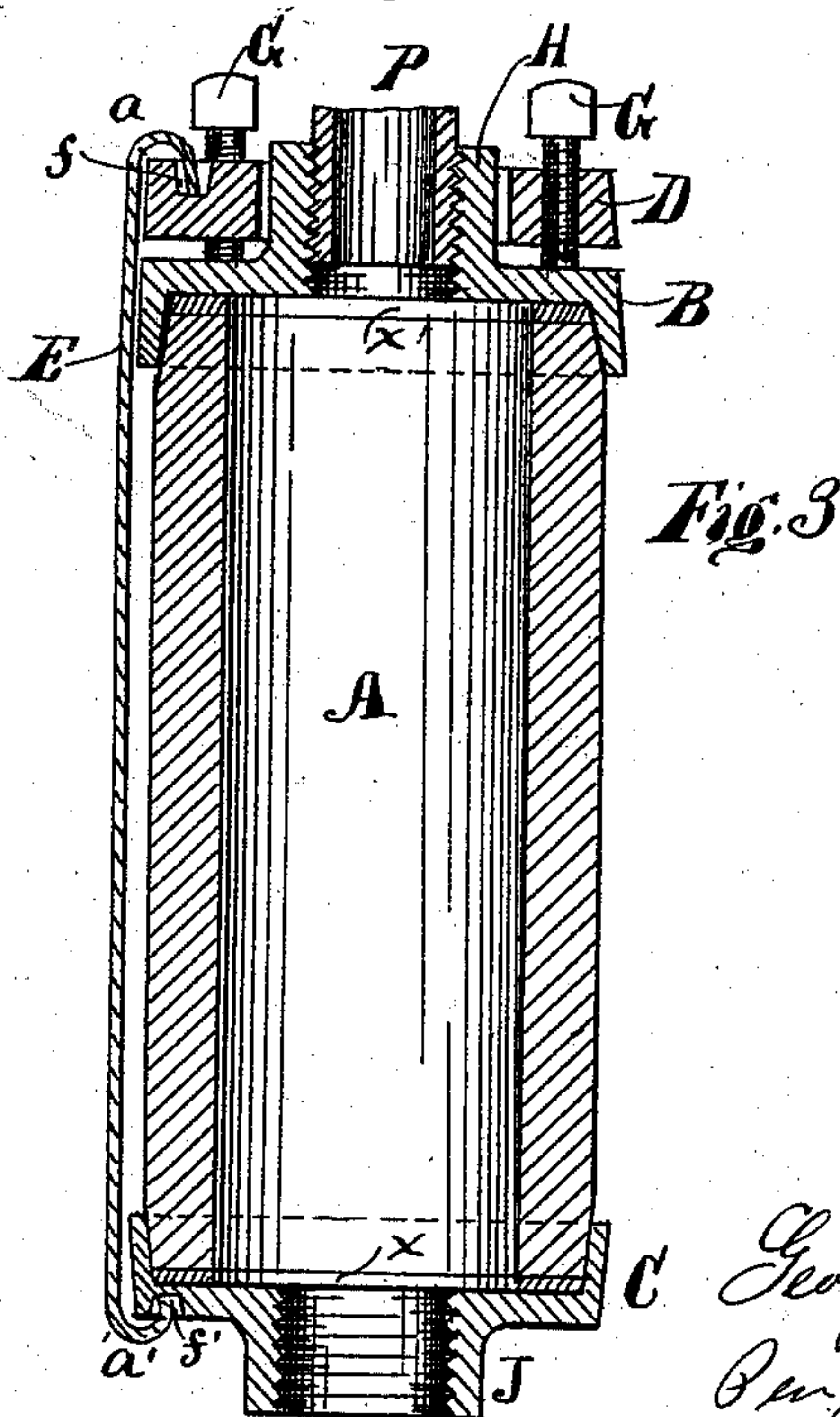
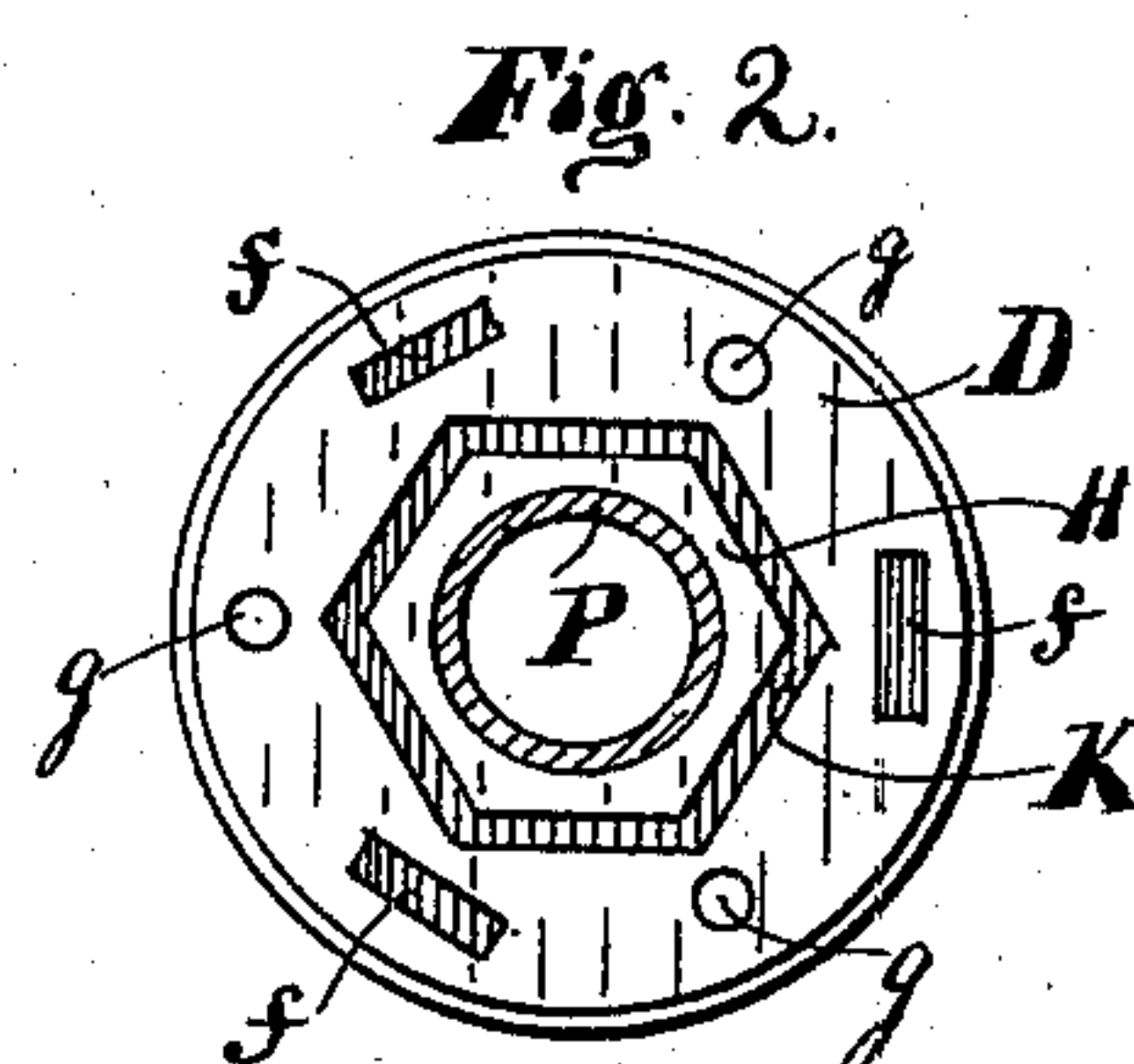
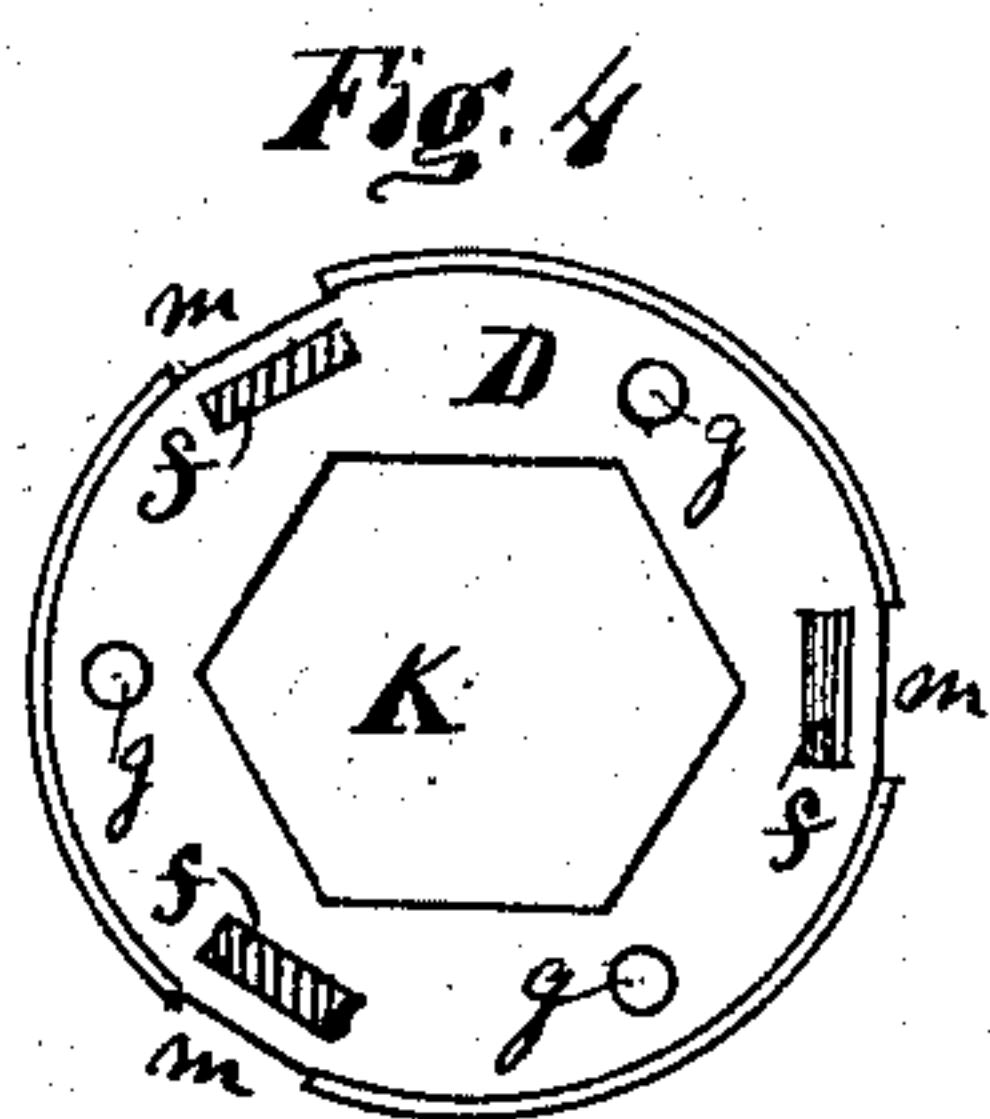
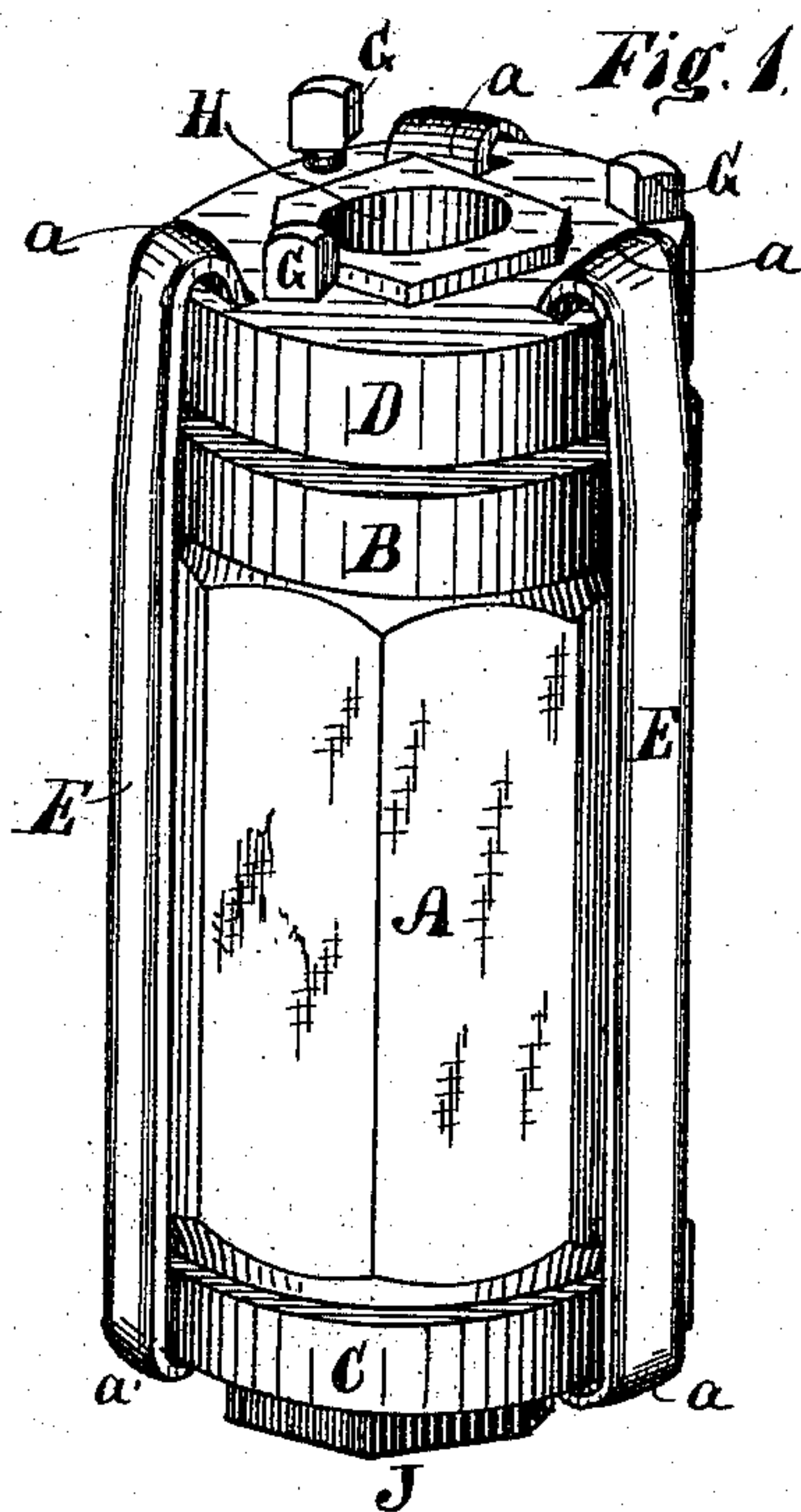


G. W. DAWSON.
Pump.

No. 221,794.

Patented Nov. 18, 1879.



WITNESSES;
W. P. Clifford
G. S. Remmett,

INVENTOR.
George W. Dawson
By E. O. Smith
his Attorney

UNITED STATES PATENT OFFICE.

GEORGE W. DAWSON, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO EWALD OVER, OF SAME PLACE.

IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. 221,794, dated November 18, 1879; application filed September 27, 1879.

To all whom it may concern:

Be it known that I, GEORGE W. DAWSON, of Indianapolis, in the county of Marion and 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.

Prior to my invention, stone, baked clay, glass, and metallic cylinders have been secured between the flanges in various ways; but I am not aware that they have been secured in the manner hereinafter described.

The object of my invention is to secure the cylinder between the flanges.

My invention consists, mainly, in the new construction and arrangement of devices, and in the new combination of elements, as will be hereinafter first fully described in the specification, and then set forth in the claims.

In the accompanying drawings, in which like letters of reference in the different figures indicate like parts, Figure 1 represents a perspective view of a pump-cylinder embodying my invention. Fig. 2 is a top or plan view of the cap. Fig. 3 is a sectional view of the pump-cylinder, cap, top, and bottom flanges, and Fig. 4 is a modified form of the cap.

A represents the pump-cylinder; B, the top flange; C, the lower flange. Each of these flanges is provided with a hub or boss, H and J, into which the connecting-pipes are screwed, the pipe P extending upward and provided with a pump-handle and spout, (not shown,) in the usual manner. A pipe (not shown) also connects the lower flange C with the water.

The upper cap, D, is provided with an opening, K, in the center, to fit loosely over the boss H of the upper flange, B. The cap D is further provided with two or more set-screws, G, operating in screw-threaded holes g, and a series of two or more recesses, f f', for the curved ends a of the clamps E to rest in. The lower flange, C, is also provided with corresponding recesses f' for the lower curved ends,

a', of the clamps E to rest in. The clamps E are flat or curved bars of metal, having their upper and lower ends bent into curves or hooks, as shown at a a', Figs. 1 and 3.

Having thus described the several parts of my invention, I will now describe the mode of securing the several parts together, to wit: The lower flange, C, is first fitted with a gasket, X, after which the cylinder A is inserted. The upper flange, B, is then placed on the upper end of the cylinder, with the gasket X' between them. The cap D is then placed over the flange B, and the lower ends, a', of the clamps E E E are hooked into the recesses f' of the flange C, and also into the recesses f of the cap D. The set-screws G G are then tightened up, thus forcing the flanges B and C tightly in contact with the gaskets X X' and cylinder, thereby securing the cylinder in a permanent manner, as shown in Fig. 1.

The cap D and flanges B C may be provided with recesses m on the sides to hold the clamps from slipping, as shown in Fig. 4.

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

1. The flange C, with two or more recesses, f', or projections in its lower face, combined with the clamp-rods E, having bent ends a a', the cap D, also provided with recesses f, and set-screws G, the flange B, and cylinder A, as and for the purpose specified.

2. The cap D, provided with two or more recesses, f, or projections on its upper surface to receive and hold the curved ends a of the clamps E, and further provided with set-screws G, for the purpose of tightening the clamps and clamping the flanges B C to the cylinder, as shown and described.

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

GEO. W. DAWSON.

Witnesses:

E. O. FRINK,
G. A. RENNETT.