

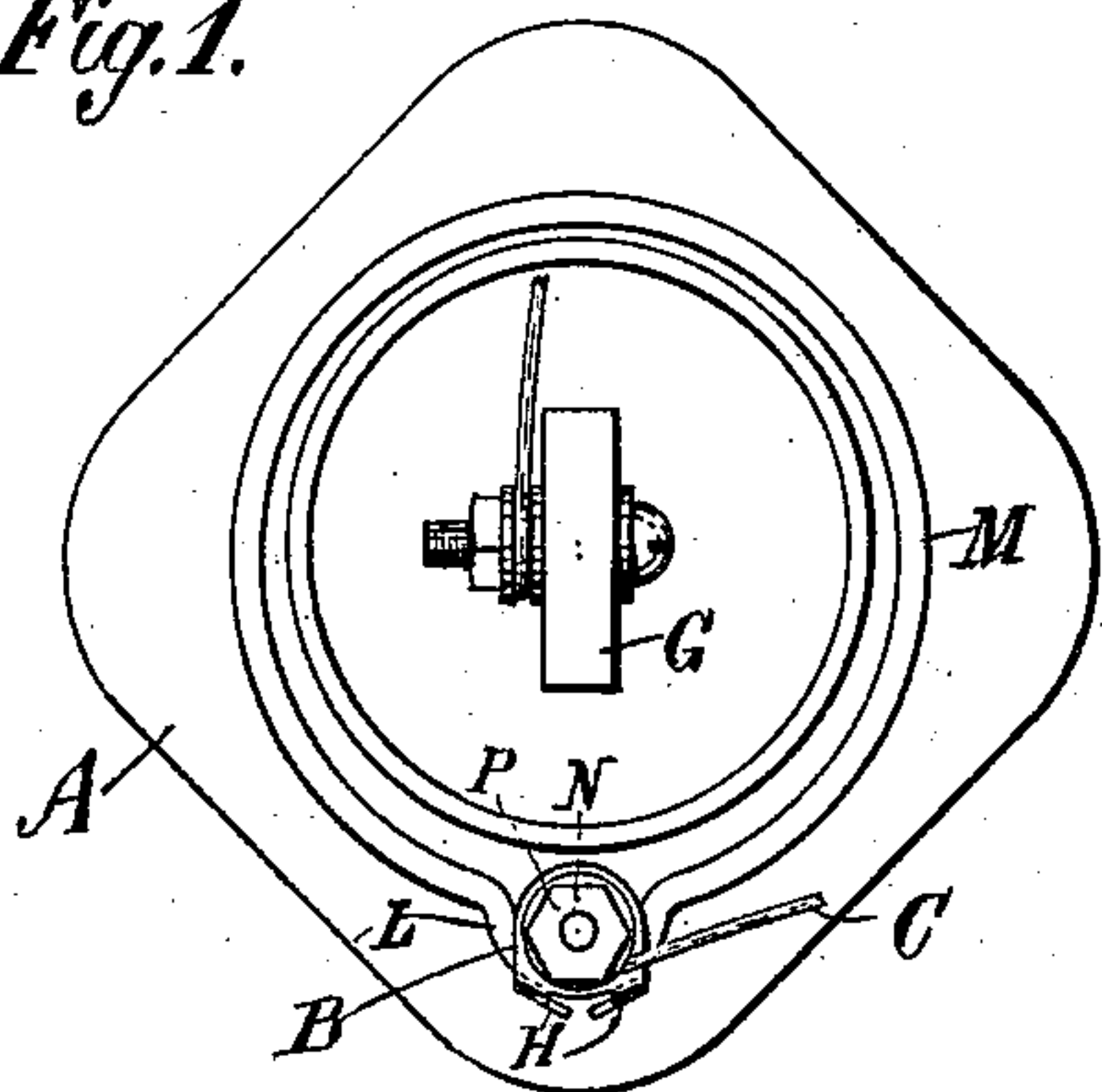
(No Model.)

H. J. BREWER.  
ZINC SUPPORT FOR BATTERIES.

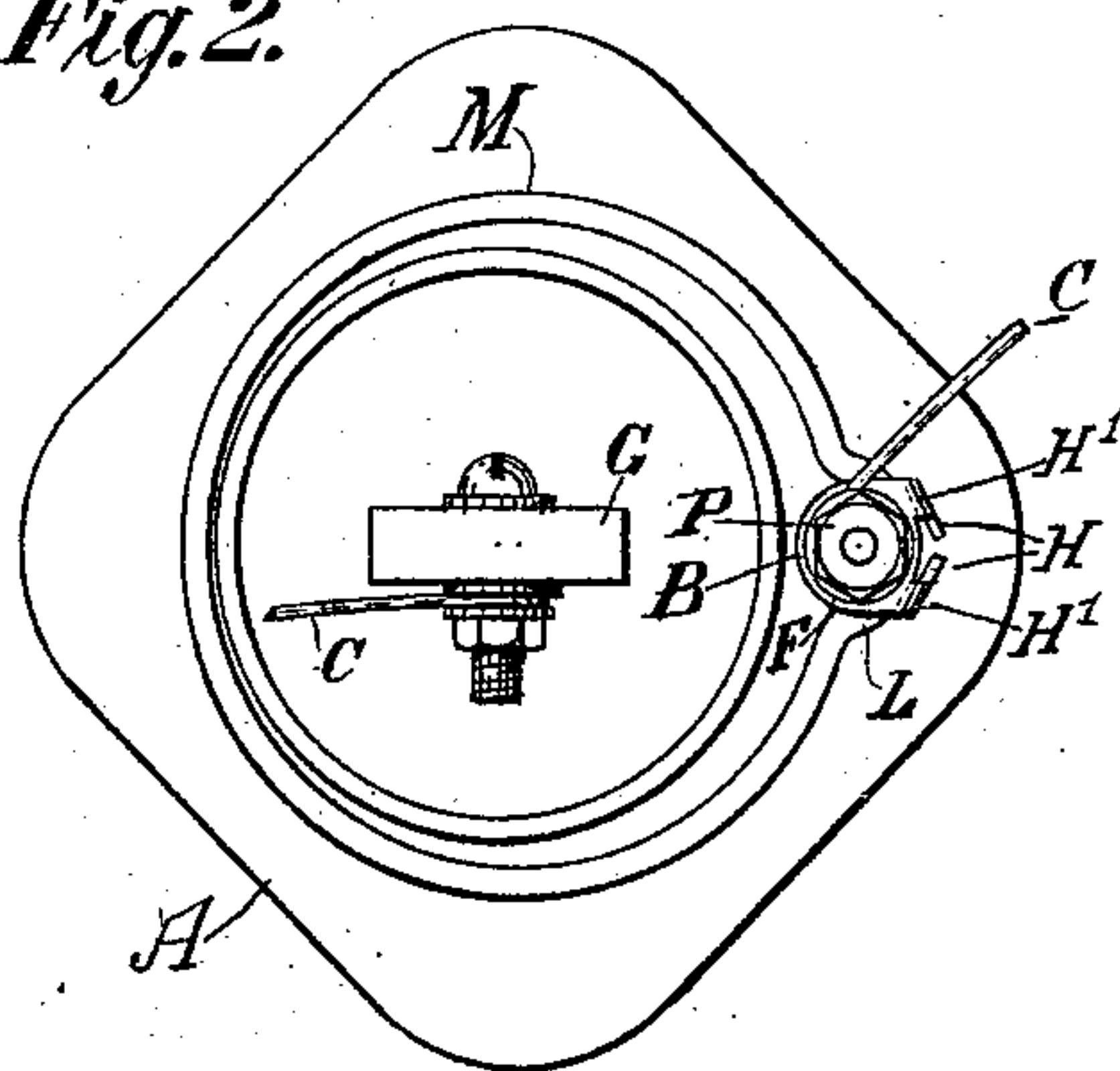
No. 557,048.

Patented Mar. 24, 1896.

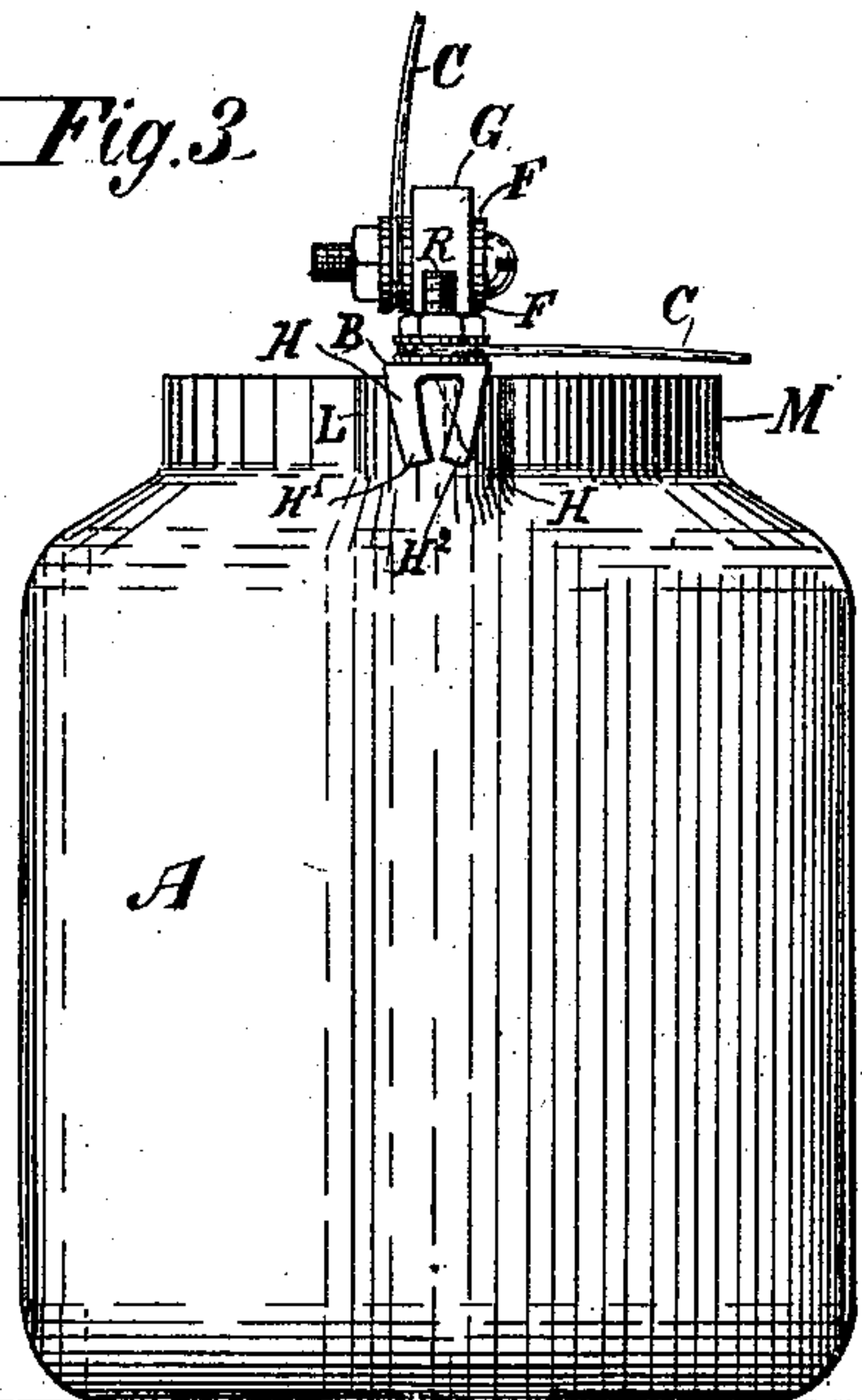
*Fig. 1.*



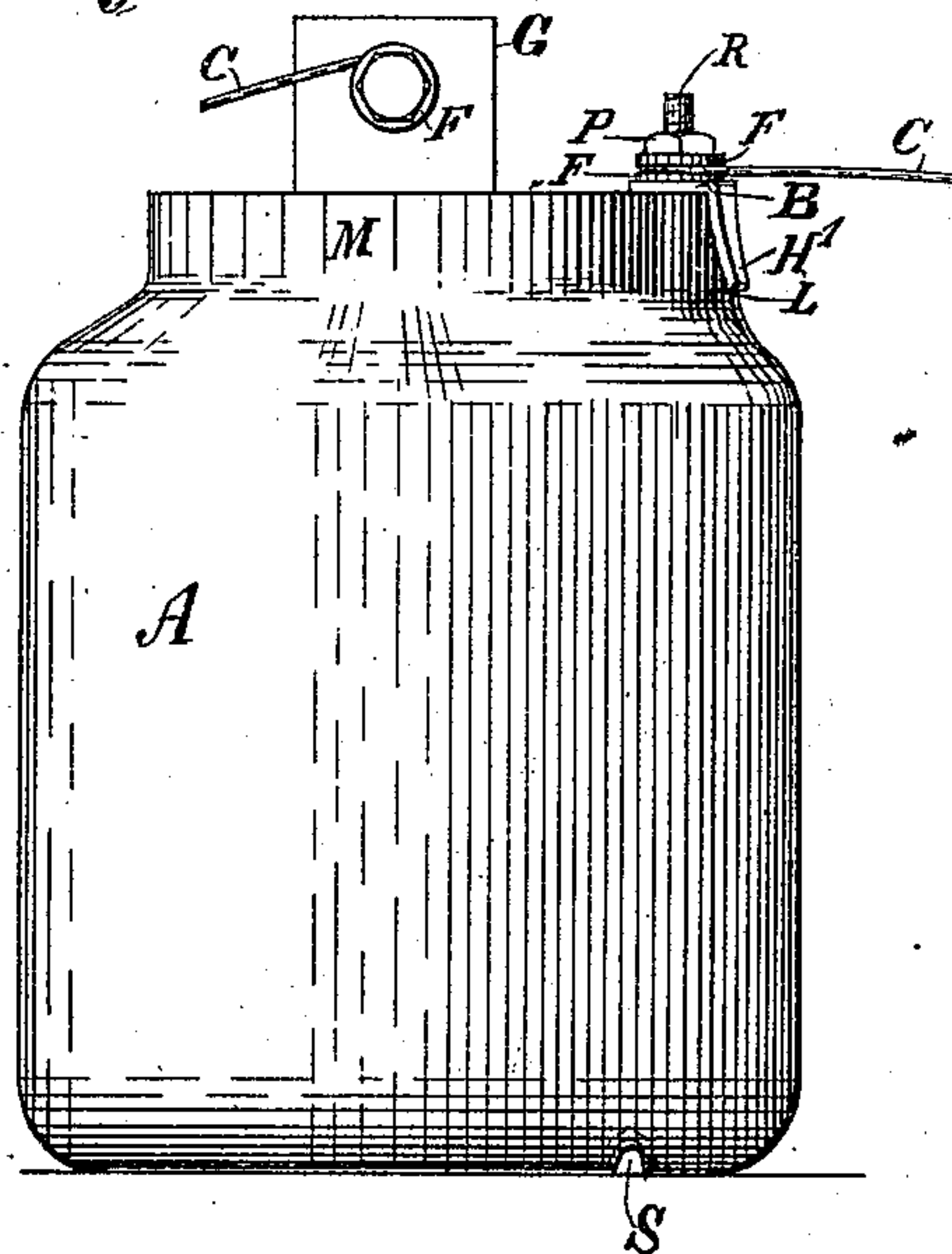
*Fig. 2.*



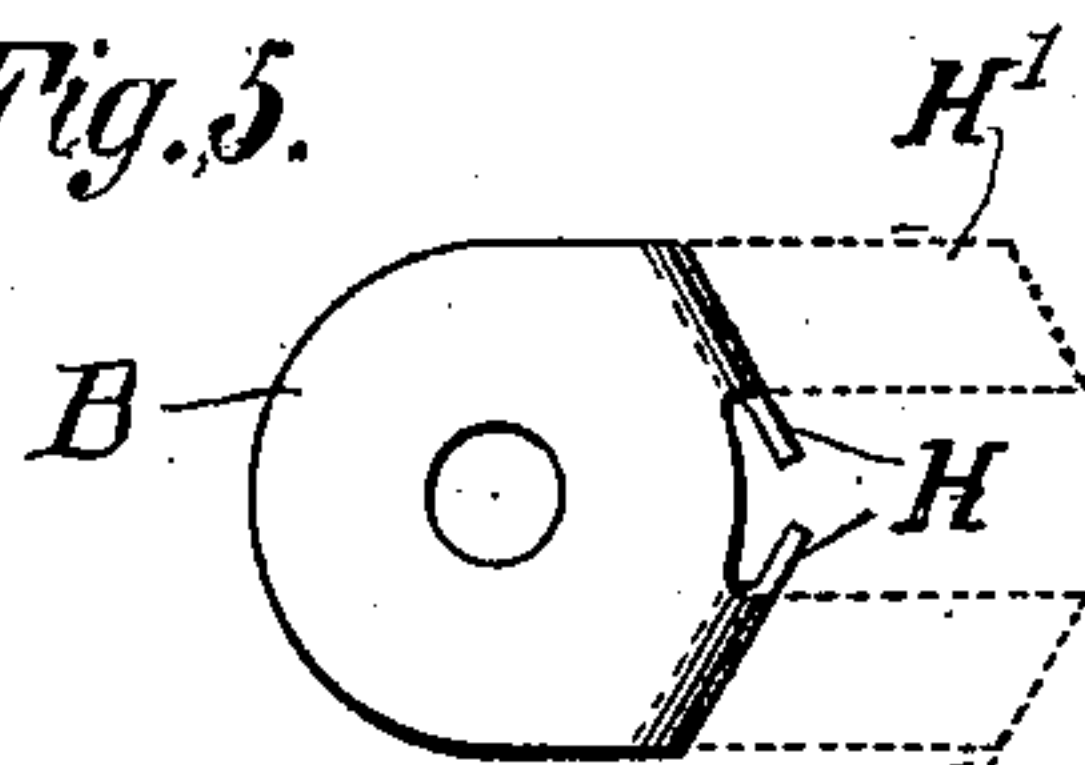
*Fig. 3.*



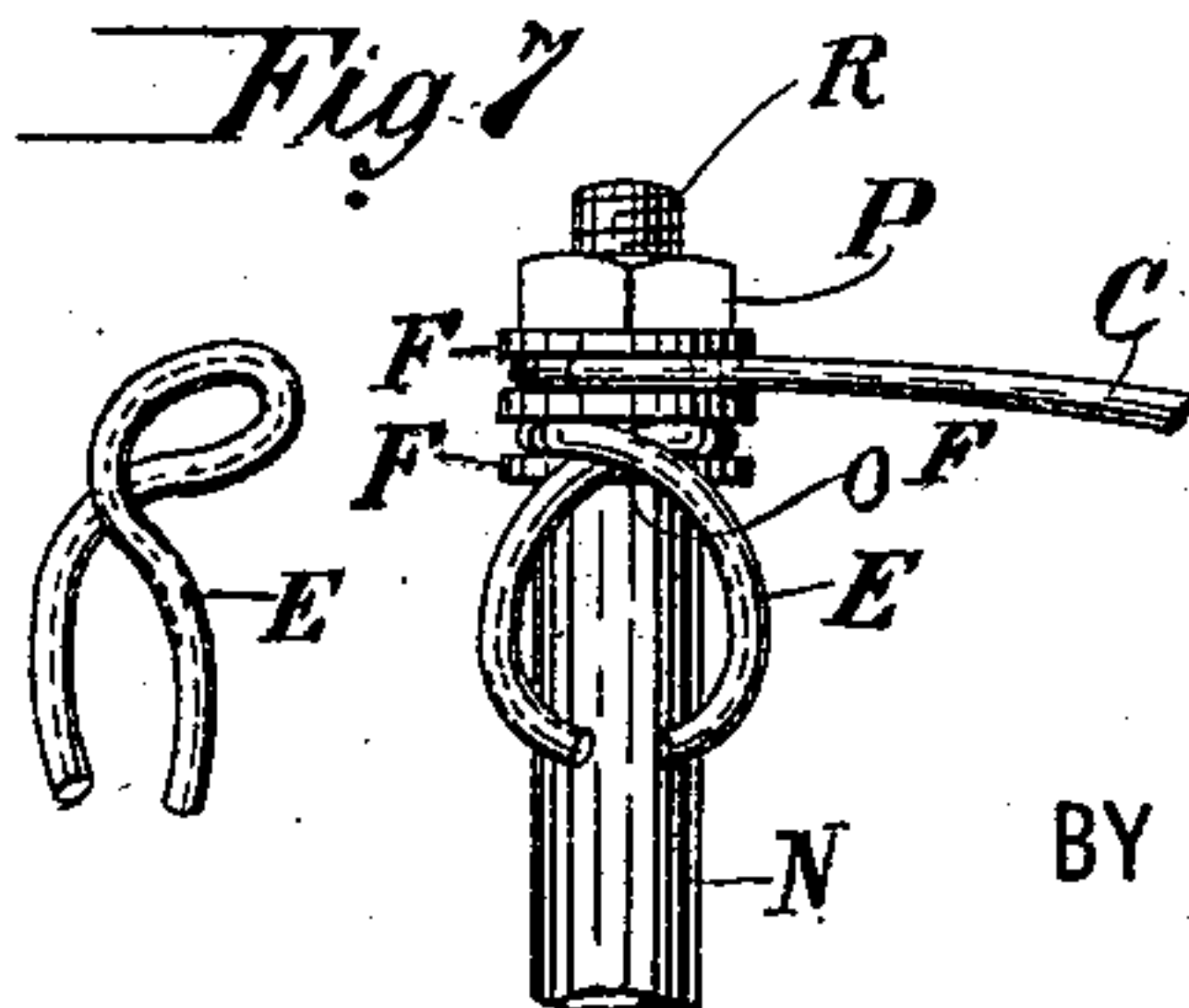
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



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# UNITED STATES PATENT OFFICE.

HORATIO J. BREWER, OF NEW YORK, N. Y.

## ZINC-SUPPORT FOR BATTERIES.

SPECIFICATION forming part of Letters Patent No. 557,048, dated March 24, 1896.

Application filed June 9, 1894. Serial No. 514,064. (No model.)

*To all whom it may concern:*

Be it known that I, HORATIO J. BREWER, of the city, county, and State of New York, have invented a new and useful Improvement in Zinc-Supports for Batteries, of which the following is a full, true, and exact description, reference being had to the accompanying drawings.

This invention relates to an improvement in removable supports for carrying zincs in batteries, especially of the kind known as "zinc pencils."

In the class of batteries to which this zinc-support is specially applicable the upper edge of the battery-jar is provided with a lip adapted to support the zinc clip or rest.

My invention will be readily understood from the accompanying drawings, in which—

Figure 1 represents a plan view of the completed battery shown in elevation in Fig. 3; Fig. 2, a similar plan view of the battery shown in elevation in Fig. 4; Figs. 5 and 6, details of two forms of clamp, and Fig. 7 a view of the clamp or support of Fig. 6 attached to the zinc pencil.

A represents the battery-jar; B, the zinc-clamp; C, the attached wire; E, a modified form of zinc-clamp; F, washers; G, the carbon element.

The battery is arranged in any ordinary way, the upper part of the jar being provided with a lip M and preferably with a spout L formed from the said lip M. The carbon element G is formed in any suitable way. The zinc pencil N is provided with a shoulder, as at O, upon which a washer may rest, and with a nut P for clamping the wire C and support B firmly to the zinc.

The zinc-support may be of any suitable form, provided it be made detachable from the zinc and adapted to engage with the lip M. In the form shown it is especially adapted

to embrace the spout L on the lip M, as shown, upon two sides, thereby holding the zinc firmly in position and away from contact with the carbon. In the form shown in Fig. 6 the clamp consists of a metallic portion, preferably of zinc, having an opening adapted to surround the screw-thread R when it may rest upon the shoulder O or upon the washer F, resting upon the shoulder. By preference, above the clamp B another washer F is inserted, then the wire C wound around the zinc, and then still another washer F above the same, when the whole may be clamped in position by the nut P, as shown in Fig. 7. The whole is then set in the jar A, as clearly shown in Figs. 1 and 2. The two arms of H of the clamp B engage on either side of the spout L. The lower end of the zinc may then rest inside of the glass lip S, or the zinc may be suspended without reaching the bottom.

The support B is preferably formed of a sheet of flat zinc, as shown in Fig. 5, the arms H' being bent into the position shown at H, or the wire E may be employed, also preferably of zinc, and the same bent to the form shown, whereby the same results are accomplished.

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

The combination of the zinc pencil, the battery-jar having a lip, the projecting spout integral therewith, and the detachable zinc-support having two downwardly-projecting arms engaging with the two sides of the spout of the jar, substantially as described.

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

HORATIO J. BREWER.

Witnesses:

H. COUTANT,  
ANTHONY GREF.