

C. H. SCHULTZ.
Soda-Fountains.

No. 149,254.

Patented March 31, 1874.

Fig: 1.

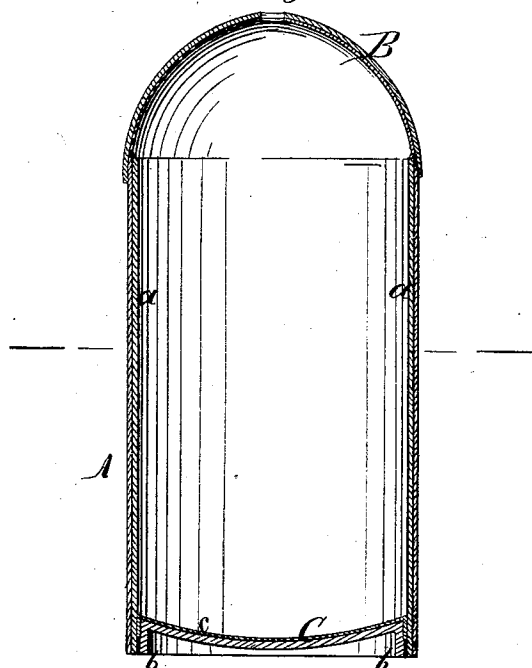
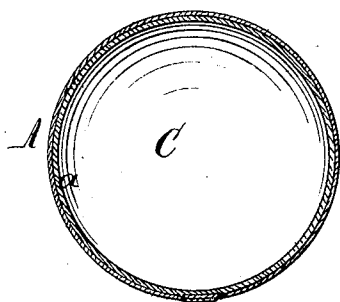


Fig: 2.



Witnesses.
Ernst Bilhuber.
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Inventor:
Carl H. Schultz
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his attys

UNITED STATES PATENT OFFICE.

CARL H. SCHULTZ, OF NEW YORK, N. Y.

IMPROVEMENT IN SODA-FOUNTAINS.

Specification forming part of Letters Patent No. **149,254**, dated March 31, 1874; application filed January 28, 1874.

To all whom it may concern:

Be it known that I, CARL H. SCHULTZ, of the city, county, and State of New York, have invented a new and Improved Fountain for Effervescent Liquids; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a vertical central section of my invention. Fig. 2 is a horizontal section of the same.

Similar letters indicate corresponding parts.

This invention relates to a fountain for soda-water or other effervescent liquids, the body of which consists of a shell of sheet-copper, boiler-iron, or other suitable metal, lined with tin, and provided with a bottom composed of cast-iron or other suitable material, the inner surface of which is lined with tin that overlaps the edge of the cover, and serves to unite said cover to the tin lining of the shell, in such a manner that a strong and durable fountain is produced, the inner surface of which is fully protected against the attacks of carbonic acid and such other chemicals which may be mixed with the effervescent liquids for which the fountain is intended, and, at the same time, the bottom forms a firm base; and, if desired, said bottom can be easily removed for the purpose of gaining access to the interior of the shell.

In the drawing, the letter A designates a cylindrical shell, which is provided at one end with a hemispherical cap, B, while its other end is open for the reception of the bottom C. The shell A is made of sheet-copper, boiler-iron, or other suitable material of sufficient strength to resist the pressure to which the same may be exposed; and said shell is provided with a lining, *a*, of tin or other suitable metal capable of resisting the effect of carbonic acid, or of such other chemicals which may be contained in the effervescent liquids for which the fountain is intended. The lining *a* covers the entire inner surface of the shell A, and it is fastened to said shell, near the bottom edge thereof, by solder or otherwise. The

bottom C consists of a body of cast-iron, malleable iron, cast-steel, or other suitable material of sufficient strength for the purpose; and it is preferably constructed with a downwardly-projecting flange, *b*, so that the bottom, after having been secured in the shell, forms a good base for the fountain, and no additional foot-piece is required, and, at the same time, by said flange a large surface is obtained, by which the bottom can be firmly soldered or otherwise secured to the shell. The surface of said bottom is covered by a cap, *c*, of tin, which overlaps the edge of the casting, and extends down a certain distance, as shown in Fig. 1 of the drawing. The extreme diameter of the downwardly-projecting rim of the cap *c* is equal to the inner diameter of the tin lining *a*, so that when the bottom is inserted into the open end of the shell it can be readily connected thereto by soldering the rim of the cap to the lining; and, if desired, additional fastenings may be applied, such as screws extending through the shell near its bottom edge, and through the flange *b* of the bottom.

By these means, a fountain for soda-water and other effervescent liquids is obtained, the inner surface of which is effectively protected against the effect of carbonic acid or other chemicals mixed with or contained in the effervescent liquids, while, at the same time, the shell A and the bottom C are of sufficient strength to resist any internal pressure to which the fountain may be exposed; and, furthermore, said parts are so connected that the bottom C can be removed and replaced without much trouble whenever it is desirable to gain access to the interior of the fountain.

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

In a vessel for holding effervescent liquids, constructed as herein shown, the bottom C, having a depending flange, *b*, in combination with the vessel A, its lining *a*, cap B, and lining *c*, the depending flange of which is interposed between the flange *b* and lining *a*, in the manner and for the purpose specified.

CARL H. SCHULTZ.

Witnesses:

W. HAUFF,
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