

(No Model.)

W. F. STARK.  
PORTABLE SIPHON.

No. 301,767.

Patented July 8, 1884.

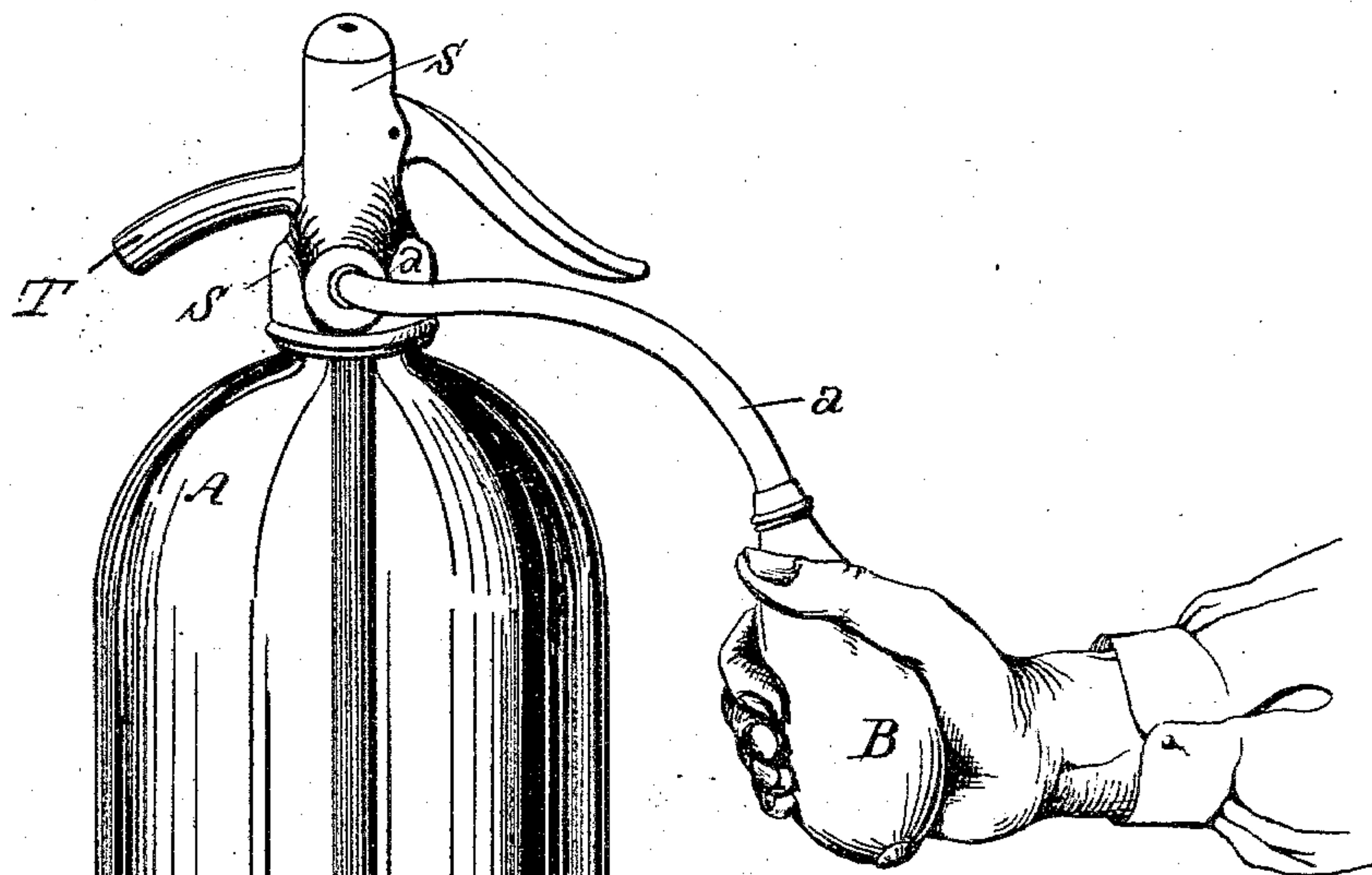


Fig. 1

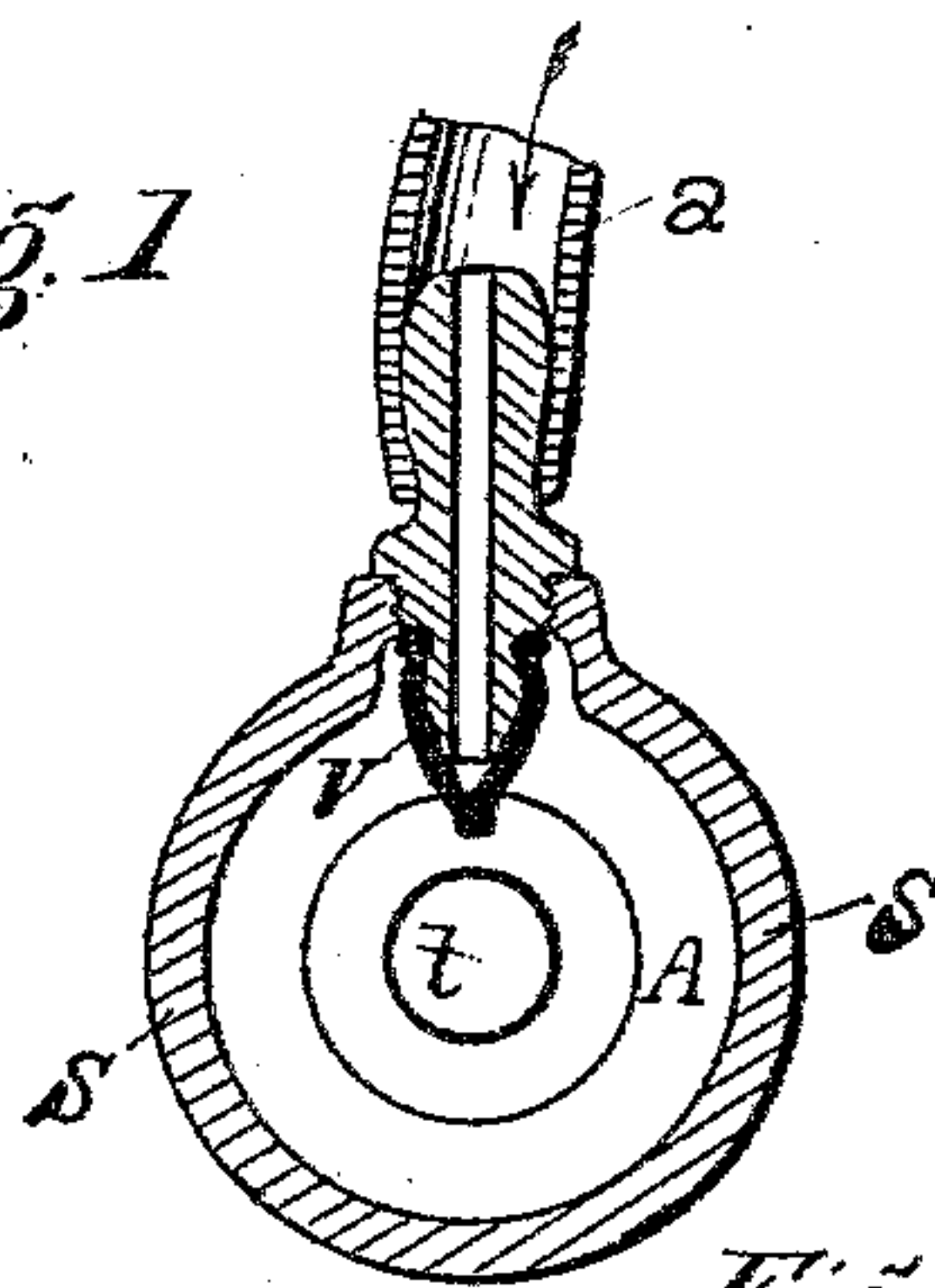
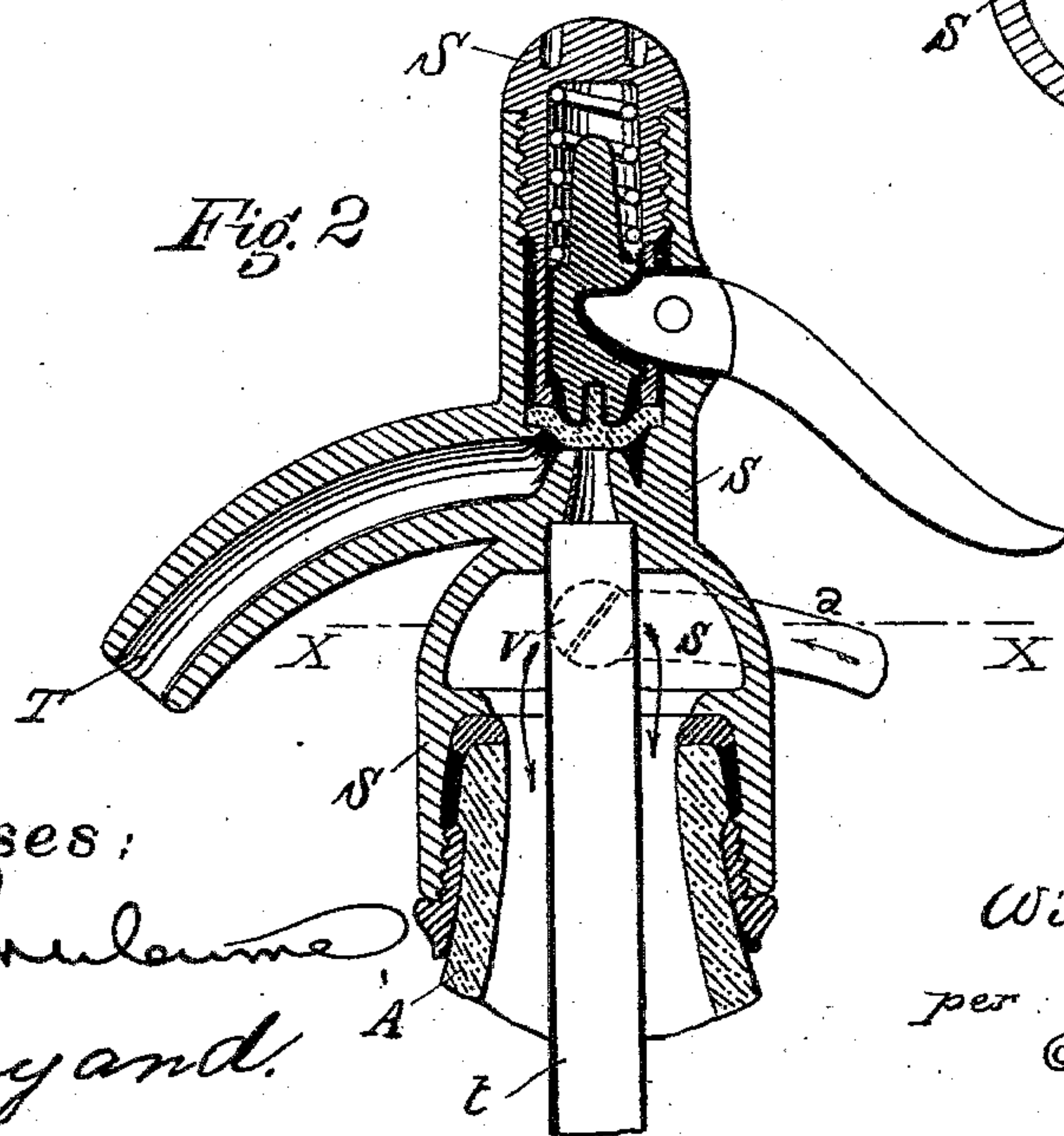


Fig. 3

Fig. 2



Witnesses:

J. J. Shulman  
Jos. Heyand.

Inventor:  
William F. Stark  
per E. M. Hugroutobley  
Attorney



# UNITED STATES PATENT OFFICE.

WILLIAM F. STARK, OF NEW YORK, N. Y.

## PORTABLE SIPHON.

SPECIFICATION forming part of Letters Patent No. 301,767, dated July 8, 1884.

Application filed January 26, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM F. STARK, a citizen of the United States, and a resident of the city, county, and State of New York, have  
5 invented a new and useful Portable Siphon, of which the following is a specification.

My invention relates specially to portable siphons for dispensing liquids of any kind not artificially charged in bottling; and the object  
10 of my invention is to produce a portable siphon for the packing and dispensing of liquids, which will not discharge from their own pressure, by the combination with the siphon of a portable air-compressing device, whereby air  
15 may be forced into the siphon for the purpose of expelling and discharging the liquid therein contained. I accomplish this by the mechanism illustrated in the accompanying drawings, in which—

20 Figure 1 represents a perspective view of my improved siphon; Fig. 2, a vertical section of the siphon-head, and Fig. 3 a horizontal section of the siphon-head on line X X.

Similar letters refer to similar parts in both  
25 views.

A is the body of the bottle or the siphon. (Shown here of glass.)

S represents the siphon-head.

30 B is an air-compressing device (shown here in the shape of a rubber bulb) connected to the siphon by means of the tube or pipe *a*, which leads the compressed air thereto.

V is a check-valve on the end of the air-pipe *a*, and *t* is the discharging-tube for the liquid  
35 constructed in the usual manner with its lower end reaching to the bottom of the bottle and its upper end connected by means of a suitable valve in the siphon-head with the discharging-spout T.

40 My invention does not relate to any special construction of the siphon-head, but is applicable to any kind of siphon-head used.

The operation of my invention may be readily understood. When it is desired to expel liquid from the siphon, the air-compressing device 15 B is operated, by means of which air is forced into the space in the siphon around the discharging-tube *t* and over the surface of the liquid, the pressure of which air, when the valve in the siphon-head is opened, forces the  
50 liquid out at the spout. By means of my invention I accomplish the discharge in their natural purity, and without the aid of carbonic acid, of liquids—such as lager-beer, ales, and still mineral waters—by means of pure air 55 forced upon their surface, thereby discharging from hermetically-sealed portable vessels the beverages therein contained.

I do not limit myself to the use of the air-bulb B, (shown in the drawings,) as any portable-pattern of air-compressing device is  
60 available to carry out the object of my invention.

The tube *a*, which brings the compressed air from the air-compressing device B into the 65 siphon A, is shown attached to the siphon-head; but I propose to attach it when desirable to a suitable special fitting on the upper part of the siphon A itself, so as to admit the air in the same manner above the surface of the 70 liquid, and accomplish the same result.

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

The combination, in a siphon, A, of a siphon-head, S, of any suitable pattern, and discharging-tube *t*, with a portable air-compressing device, B, of any suitable pattern, tube *a*, and check-valve V, all substantially as described. 75

In witness whereof I have hereunto set my hand this 25th day of January, 1884.

WILLIAM F. STARK.

Witnesses:

E. M. HUGENTOBLE,  
F. J. HERRON.