

No. 710,305.

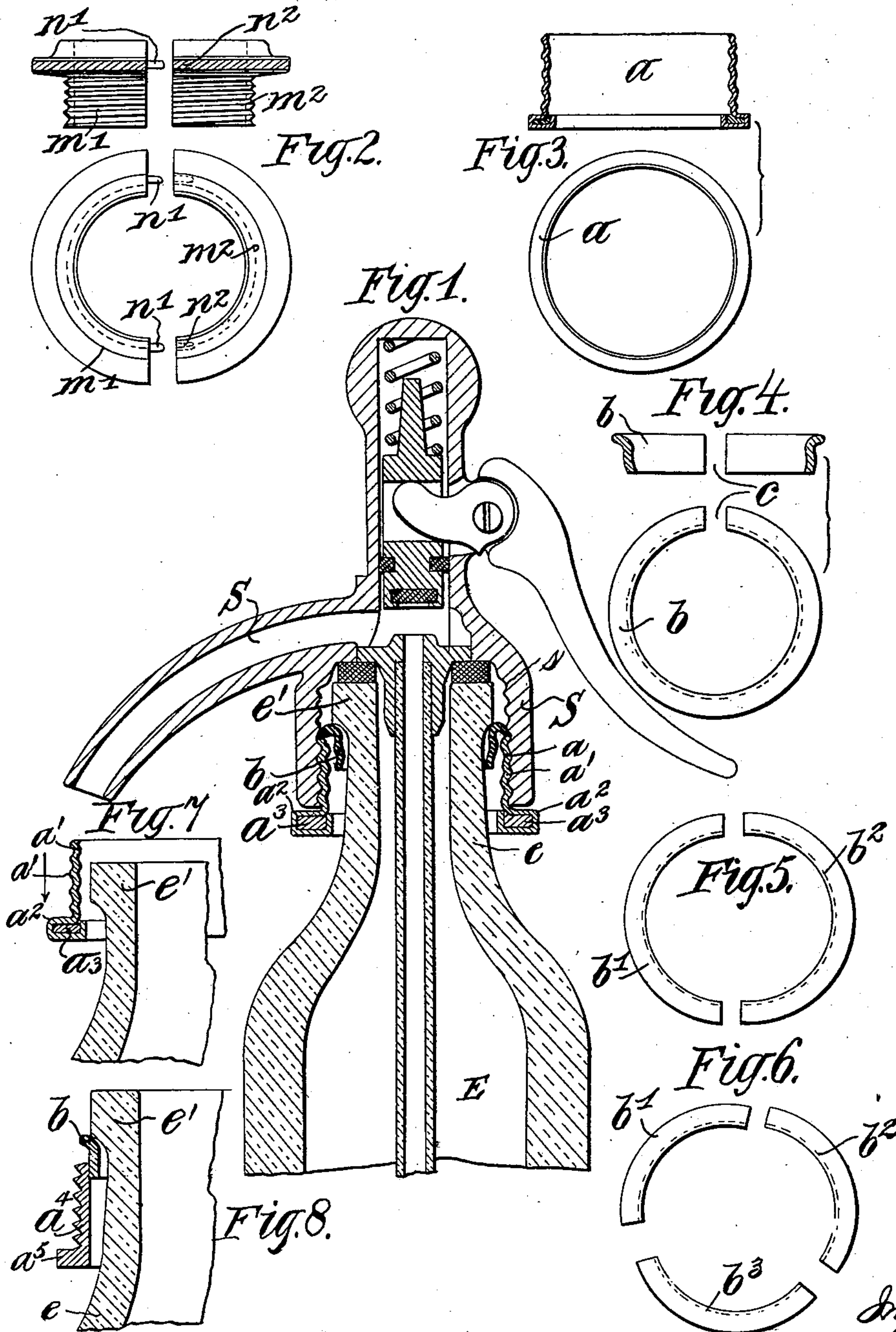
Patented Sept. 30, 1902.

E. SCHEIBER & E. KRVAYSSER.

SIPHON BOTTLE.

(Application filed July 20, 1901.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

EUGEN SCHEIBER AND EMIL KRVAYSSER, OF VIENNA, AUSTRIA-HUNGARY.

SIPHON-BOTTLE.

SPECIFICATION forming part of Letters Patent No. 710,305, dated September 30, 1902.

Application filed July 20, 1901. Serial No. 69,114. (No model.)

To all whom it may concern:

Be it known that we, EUGEN SCHEIBER and EMIL KRVAYSSER, subjects of the Emperor of Austria-Hungary, residing at Vienna, in the Province of Lower Austria, in the Empire of Austria-Hungary, have invented certain new and useful Improvements in Siphon-Bottles; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to siphon-bottles, and has for its object an improved connection between the siphon-head and the neck of the bottle. This connection is effected by means of a screw-threaded ring, the so-called "annular screw," which is pushed upon the bottle-neck over the top flange thereof, a second interior ring being inserted inside the said annular screw for the purpose of keeping the latter in place and preventing its sliding over the bottle-neck.

In the accompanying drawings, Figure 1 is a vertical sectional view through the siphon-head and a portion of a bottle. Fig. 2 is a top plan and side elevation of an annular screw hitherto employed. Fig. 3 is a vertical section and top plan view of our improved annular screw. Fig. 4 is a similar view of our improved retaining-ring. Figs. 5 and 6 are modifications of the same. Fig. 7 is a vertical sectional view of one half of a bottle-neck, showing the relation of the annular screw to the flange when being fixed upon the neck of the bottle. Fig. 8 is a similar view showing a modified form of annular screw-ring and having the interior ring inserted between it and the bottle-neck.

As generally known, the usual means for fixing the siphon-heads upon the necks of siphon-bottles consisted in the employment of an annular screw composed of two halves m' m^2 , Fig. 2, the said two halves of the annular screw being arranged so as to precisely fit together beneath the flange of the bottle by means of pins n' , exactly fitting into corresponding apertures n^2 . The siphon-head is

screwed down upon the said annular screw m' m^2 , and thus fixed to the bottle.

In Fig. 2 the annular screw is represented with the screw-thread directed downward, while when applied to the siphon it will as a matter of course be directed upward.

According to the present invention the connection of the siphon-head with the neck of bottle is also effected by means of an annular screw; but the arrangement is simplified in such a manner that the annular screw a , Fig. 3, is not composed of two separate parts, but is made in one undivided ring. The width of the interior open space of this ring is calculated in such a manner as to allow the annular screw to be freely pushed onto the neck of the bottle over a flange e' , formed around the mouth.

In order to prevent the annular screw a from being forced from the neck e of the bottle E , an abutment or ring b is inserted between the annular screw a and the neck of bottle below the flange e' in the manner shown in Figs. 1 and 8, the said ring forming an abutment between said annular screw and the flange. This intermediate ring or abutment b may either be made in the shape of a single-slit flexible ring capable of being sprung over the flange e' , as shown in Fig. 4, or it may consist of several rigid arc-shaped sections b' b^2 b^3 , as shown in Figs. 5 and 6, which when assembled form a ring.

The annular screw a is provided on its periphery with screw-threads a' , which engage screw-threads s , formed on the interior of the siphon-head S . The screw a is preferably made of sheet metal and has a flange a^2 formed on its base by bending the metal around a stiffening-ring a^3 . In Fig. 8 we have shown an annular screw a^4 , made of cast metal, having a solid flange a^5 formed thereon.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The combination with a siphon-bottle having an annular shoulder below its mouth and an externally-threaded sleeve adapted to be slipped over said shoulder onto the neck of the bottle; of a flanged lock-ring fitting said neck below the shoulder and adapted to be inserted into the threaded sleeve after it

has been slipped over said shoulder whereby the flange on the lock-ring will project over one end of said sleeve and abut against said shoulder, for the purpose set forth.

- 5 2. The combination with a siphon-bottle having an annular shoulder below its mouth and an externally-threaded sleeve adapted to be slipped over the shoulder onto the neck of the bottle; of a sectional flanged lock-ring
10 adapted to be inserted into the sleeve after it has been slipped over the shoulder, whereby

the flange on the ring-sections will project over the end of the sleeve and abut against said shoulder, for the purpose set forth.

In testimony that we claim the foregoing as 15
our invention we have signed our names in
presence of two subscribing witnesses.

EUGEN SCHEIBER.
EMIL KRVAYSSER.

Witnesses:

JOSEF RUBRESCH,
ALVESTO S. HOGUE.

It is hereby certified that the name of one of the patentees in Letters Patent No. 710,305, granted September 30, 1902, for an improvement in "Siphon-Bottles," was erroneously written and printed "Emil Krvaysser," whereas the said name should have been written and printed *Emil Kwaysser*, and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 7th day of October, A. D., 1902.

[SEAL.]

F. I. ALLEN,
Commissioner of Patents.