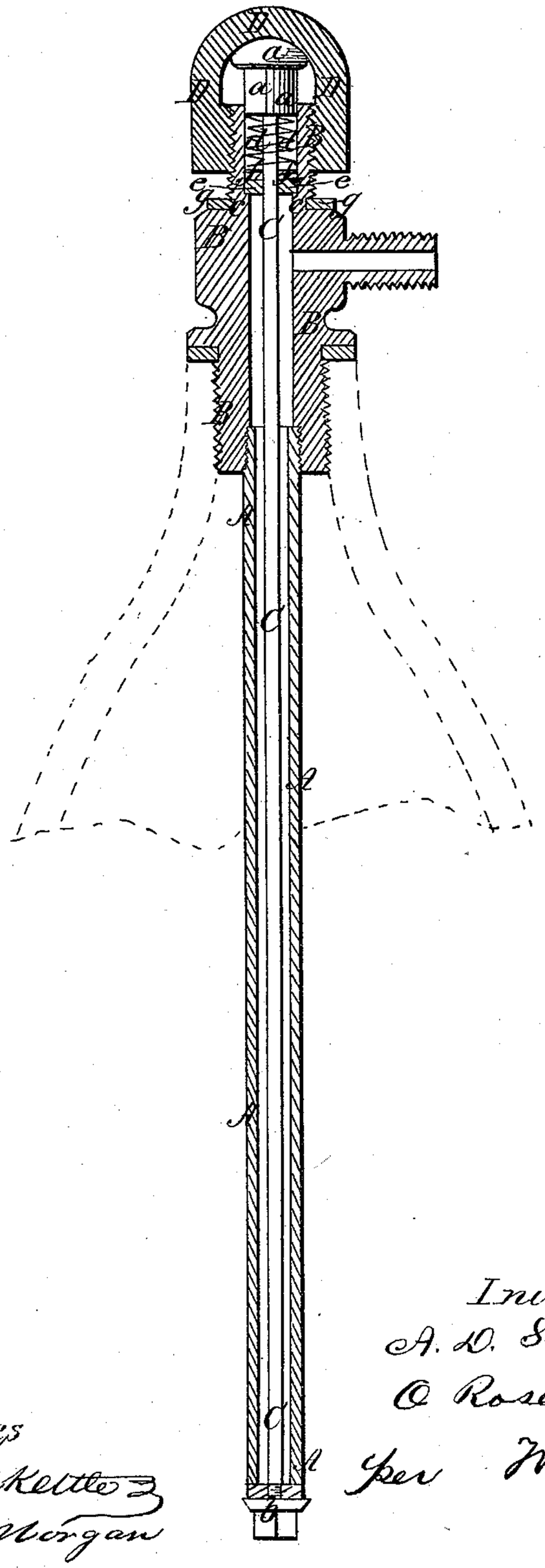
Schnackenberg & Rosenkrantz.

Soda Fountain.

No. 86,782. Patented Feb. 9, 1869.



Witnesses
H. C. Aslikette 3
Wm A Morgan

Inventor
A. D. Schnackenberg
& Rosenkrantz
per Munn & Co
Attorneys

United States Patent Office.

A. D. SCHNACKENBERG AND OTTO ROSENKRANZ, OF BROOKLYN, NEW YORK, ASSIGNORS TO A. D. SCHNACKENBERG.

Letters Patent No. 86,782, *dated February* 9, 1869.

IMPROVEMENT IN SODA-FOUNTAINS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, A. D. SCHNACKENBERG and OTTO ROSENKRANZ, of Brooklyn, in the county of Kings, and State of New York, have invented a new and improved Soda-Water Fountain; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming a part of this specification.

The drawing represents a sectional elevation of our invention.

This invention relates to a new manner of arranging the valve in the discharge-pipe of a soda-water fountain or bottle, and consists in having the valve at the lower end of the discharge-pipe, close above the bottom of the fountain or bottle.

Heretofore the valves were always arranged in the upper part of the fountain, and the liquid consequently remained in and filled the discharge-pipe, which was not only injurious to the pipe, but also to the liquid, which decomposed particles of the pipe, and received a disagreeable taste or injurious properties. By having the valve at the lower end of the pipe, the said pipe will, when closed, be entirely emptied, and the aforementioned objections will be entirely overcome.

The invention also consists in the use of a cap, fitted over the upper end of the aforesaid discharge-pipe, which cap, when screwed down, pushes down the valve-rod, and opens the valve, a spring holding the rod against the crown of the cap. The cap serves to close the upper end of the pipe air-tight, and permits, at the same time, the easy operation of the valve.

A, in the drawing, represents the discharge-pipe of a soda-water fountain, said pipe extending from the upper end of the fountain, where it is screwed, or otherwise fastened, to a T-pipe, B, as shown, nearly to the bottom of the fountain.

The pipe B is secured to the neck of the fountain in the ordinary or in suitable manner.

C represents a valve-rod, with a head, *a*, formed at its upper end, and a valve, *b*, at its lower end, as shown.

Between the head *a* and a shoulder, *c*, formed in the pipe B, is interposed a spring, *d*, which serves to draw the valve against the lower end of the pipe A, and to thereby hold the lower end of the said pipe closed, the rod C extending through the whole pipe A, as shown.

Upon the shoulder *c* may be placed a rubber or elastic disk, *e*, which fits tight around the rod, to prevent the liquid from rising above the disk into the upper compartment of the pipe B.

The spring would then rest upon a metal washer, *f*, placed upon *e*, as shown.

The valve is of suitable construction.

D represents a cap, screwed over the upper end of the pipe B, the spring *d* holding the head *a* against the crown of the cap. By screwing down the cap, the rod will be pushed down and the valve will be opened.

A rubber ring, *g*, may be interposed between the lower end of the cap and a shoulder on the outside of B to make an air-tight joint when the cap is down and the valve open.

Having thus described our invention,

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

1. The valve of a soda-water fountain, operated by means of a cap, D, screwed over the upper end of the T-pipe B, and by means of a spring, *d*, as specified.

2. The pipes A and B, in combination with the valve *b*, rod C, spring *d*, and cap, D, all arranged and operating substantially as herein shown and described.

A. D. SCHNACKENBERG.
O. ROSENKRANZ.

Witnesses:

WM. F. MCNAMARA,
ALEX. F. ROBERTS.