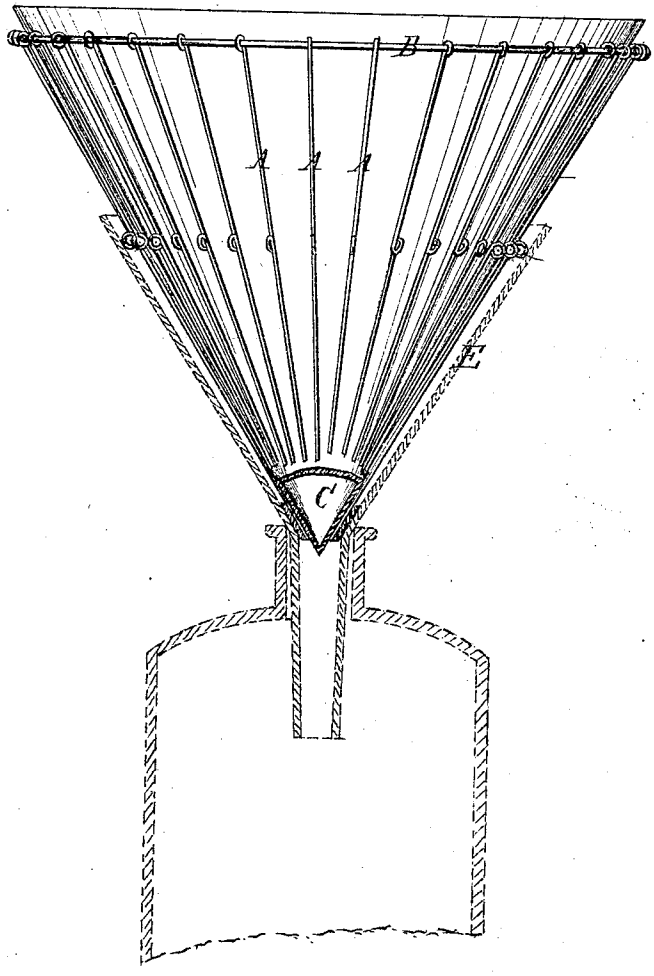
E. C. ANDREWS.

FILTER RACK.

No. 96,765. Patented Nov. 16, 1869.



Witnesses:

Inv. F. Brooks

Geo. W. Mabee

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E. C. ANDREWS, OF SENECA FALLS, NEW YORK.

Letters Patent No. 96,765, *dated November* 16, 1869.

IMPROVEMENT IN FILTER-RACKS.

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

To all whom it may concern:

Be it known that I, E. C. ANDREWS, of Seneca Falls, in the county of Seneca, and State of New York, have invented a new and improved Filter-Rack; and I 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 drawings, forming part of this specification.

This invention relates to improvements in racks for chemists' use in supporting the funnel-shaped paper filters used by them for filtering liquids; and

It consists of a skeleton frame made of wire or other suitable substance, and so arranged as to expose the greatest possible amount of the surface of the paper to the air while filtering, or to prevent the contact of the paper with the side of the common funnel when used for straining into a bottle, by placing the rack in the said common funnel, or it may be used without the funnel.

The drawing represents an elevation of my improved funnel-rack, partly sectioned, also a section of a common funnel and a bottle in dotted lines.

I make my improved rack of wires, A, connected, at one end, to the large ring B, and at the other, to the small metal concave cap C, and these wires I bend at the centres, or thereabout, as shown at D, into coils, one or more, as preferred, so that when placed in a funnel, E, they will hold the paper away from the surface of the said funnel, and admit a free circulation of air, by which the filtering is greatly facilitated, for where the paper comes in contact with the surface of the tin or glass funnel, the air is excluded, and filtration is greatly retarded.

I may accomplish the same result, *i. e.*, the separation of the paper from the side of the funnel, by using funnels of tin or glass, with fluted sides, but these are expensive, and at best do not give as good results as the filter-rack herein described, which I prefer to use.

Having thus described my invention,

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

A filter-rack, composed of wires A, coiled near the middle, rings B, and cap C, all constructed and arranged, with respect to one another, in the manner described.

E. C. ANDREWS.

Witnesses:
THOS. B. BAIRD,
GEO. B. DAVIS.