

A. S. HODGES.
SINK-GUARD AND COVER.

No. 187,276.

Patented Feb. 13, 1877.

Fig. 1.

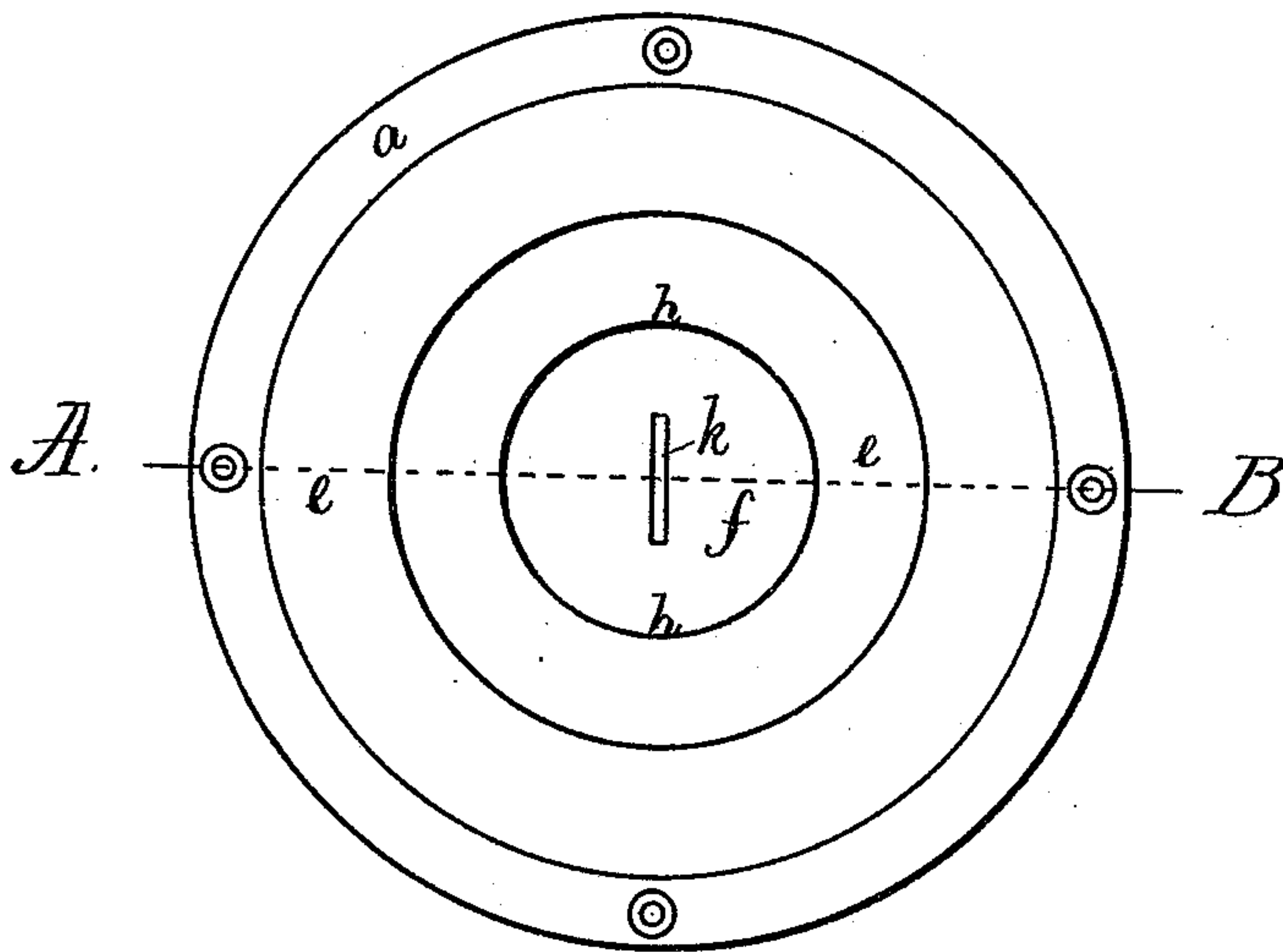


Fig. 3.

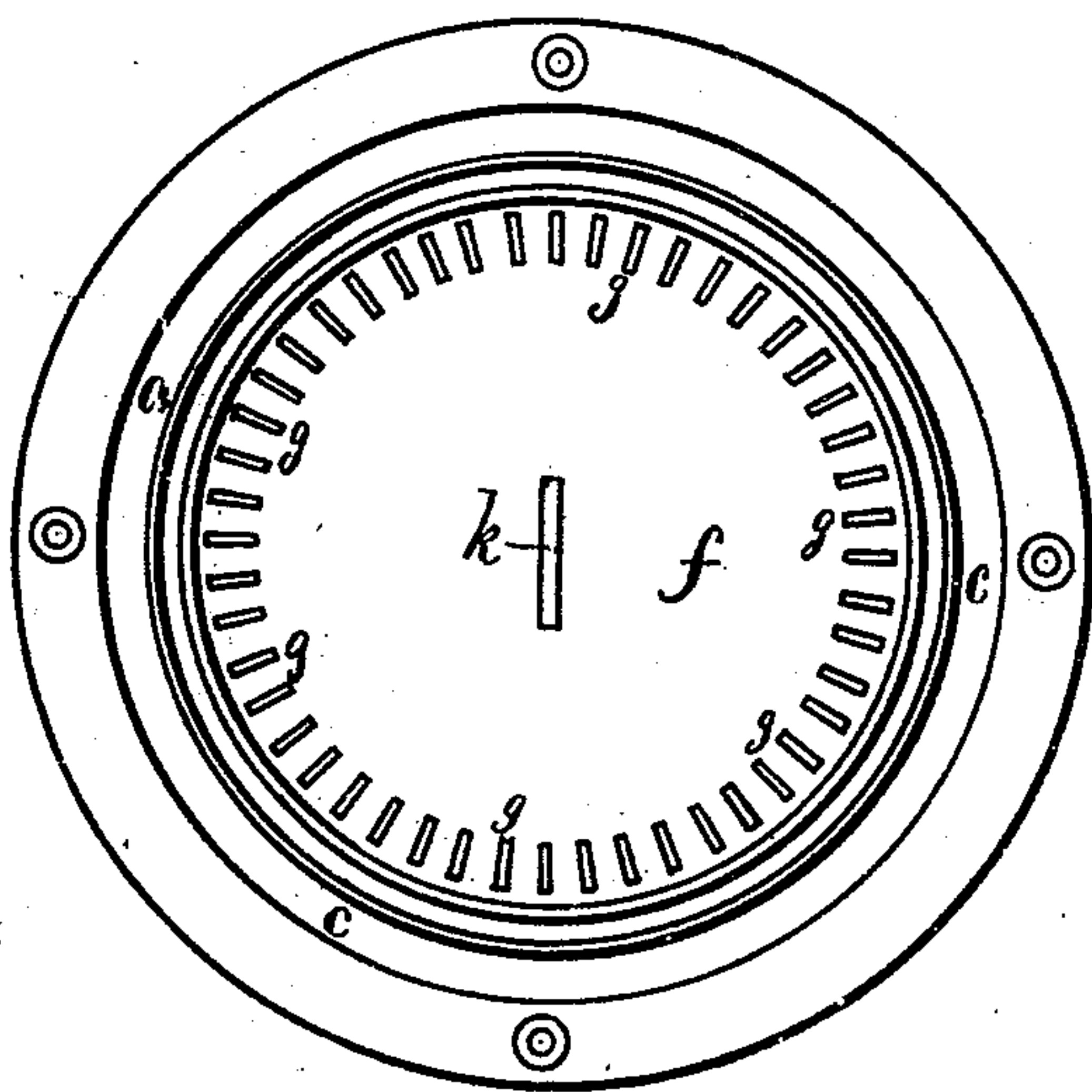
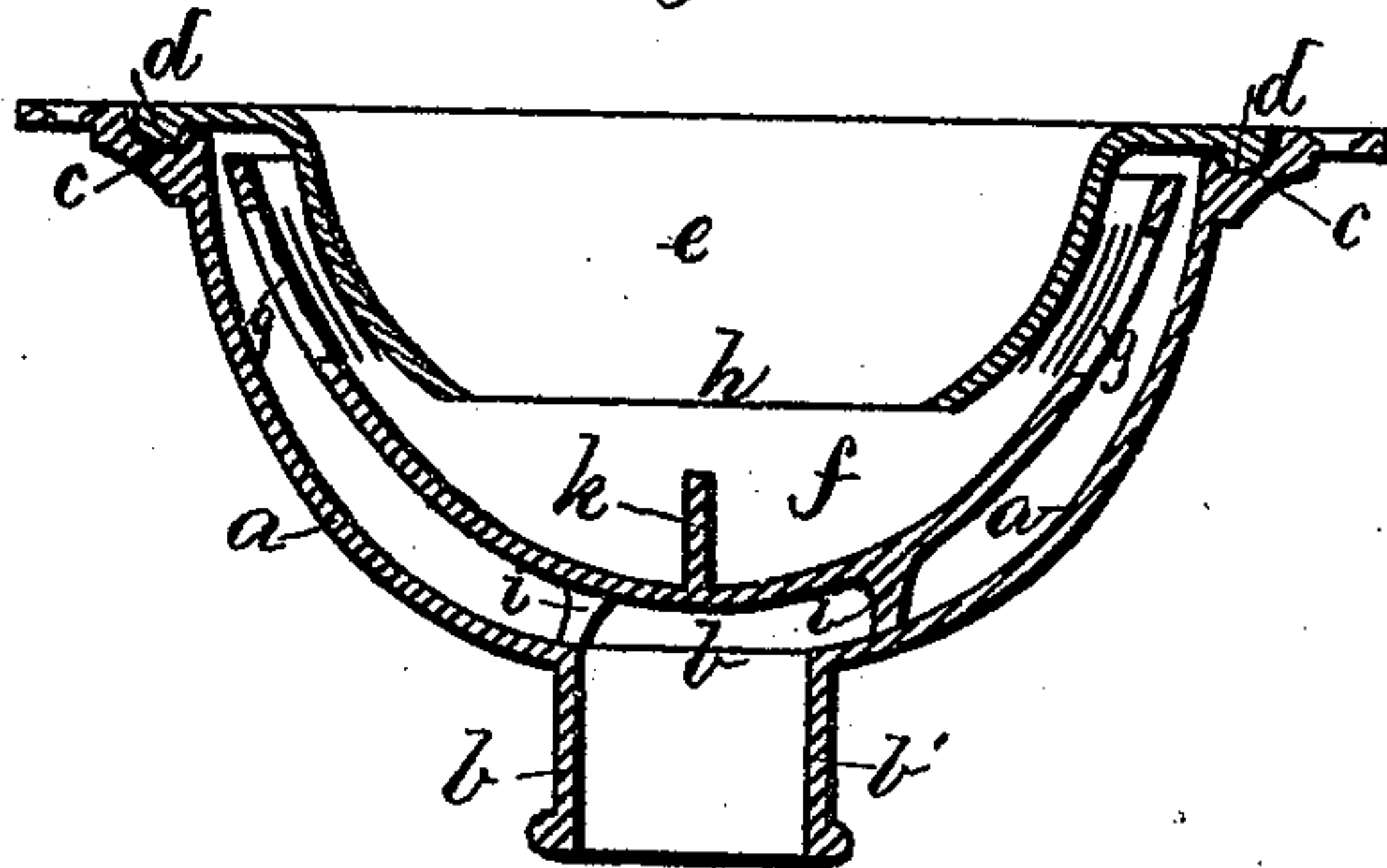


Fig. 2.



Witnesses:

Henry Chadbourne.
William H. Johnson.

Inventor:

Addison S. Hodges.
by
Alban Andrien.
his atty.

UNITED STATES PATENT OFFICE.

ADDISON S. HODGES, OF HYDE PARK, ASSIGNOR TO JOSEPH A. BUBIER,
OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN SINK GUARDS AND COVERS.

Specification forming part of Letters Patent No. **187,276**, dated February 13, 1877; application filed July 24, 1876.

To all whom it may concern:

Be it known that I, ADDISON S. HODGES, of Hyde Park, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Sink-Guards and Covers; 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 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.

My invention relates to improvements in sink-guards and covers for the purpose of preventing refuse and other substances from going down through the sink-pipe, as well as preventing bad odors from escaping up through the sink-pipe into the room in which the sink is located.

My invention consists of a receptacle secured in its upper end, in a suitable manner, to the sink-bottom—that is to say, if a metallic sink is used, the said receptacle may be cast in one piece with the sink; but if the latter is made of wood I secure the aforesaid receptacle to the sink by means of screws, nails, or similar well-known arrangements. In the upper part of said receptacle is made an annular recess, that serves as a liquid seal, combined with an annular projection made on the under side of a central detachable conveyer, the sink-water remaining in the said annular groove. The under side of the aforesaid receptacle is provided with an outlet and a pipe, to which the drain-pipe can easily be secured. Inside of the said receptacle is loosely located a half-spherical cup, the upper edge of which extends to very near the top of the former, and between it and the central conveyer. The said cup is provided near its upper edge with a number of small openings or perforations, the lower edges of which are arranged a little above the lower edge of the central conveyer, by which arrangement a second liquid seal is formed by the sink-water resting in the aforesaid spherical cup, and extending upward a little above the lower edge of the central conveyer.

In this manner I am able to produce a sink-guard and cover doubly secure against the escape into the room of the noxious sink-drain gases, at the same time as the perforations in the half spherical cup serve as a strainer, preventing pieces and refuse too large to pass freely through the sink drain-pipe from escaping through the latter. As both the central conveyer and the strainer cup are entirely loose and detachable from the receptacle in the lower part of the sink, it will be seen that the whole can easily be cleaned in case any part of it should become clogged up.

On the accompanying drawings, Figure 1 represents a plan view of my invention. Fig. 2 represents a central longitudinal section on the line A B, shown in Fig. 1. Fig. 3 represents a plan view of my invention, as shown with the central conveyer as being removed.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

a represents the receptacle secured in its upper end to the bottom of a sink, or cast in one piece with the latter, if so desired. In its lower end the said receptacle is provided with an outlet, *b*, and outlet-pipe *b'*, to which the sink-drain pipe is secured in a suitable manner. The upper edge of the said receptacle *a* is provided with an annular groove, *c*, in which rests an annular projection, *d*, of the central conveyer *e*.

Thus a liquid seal is formed in the groove *c* by the sink-water remaining in the said groove and the projection *d* resting in it. *f* represents the detachable strainer provided near its upper edge with a number of perforations, *g g*, the lower edges of which are located above the lower edge *h* of the central conveyer *e*, as shown in Fig. 2. A secondary liquid seal is thus formed in the cup *f* by the liquid remaining at all times therein, and the mouth *h* of the central conveyer *e*, projecting into the said liquid. *i i i*, represent feet or supports on the under side of the strainer *f*, and *k* represents a small handle on its inside by which the strainer can easily be removed, if so desired.

Having thus fully described the nature,

construction, and operation of my invention, I wish to secure by Letters Patent, and claim—

The herein-described improved sink-guard and strainer combined, consisting of the receptacle *a*, with its annular groove *c*, and outlet *b*, the central conveyer *e*, with its annular projection *d*, and the strainer *f*, provided with the perforations *g g g*, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own invention, I have affixed my signature in presence of two witnesses.

ADDISON S. HODGES.

Witnesses:

ALBAN ANDRÉN,
HENRY CHADBURN.