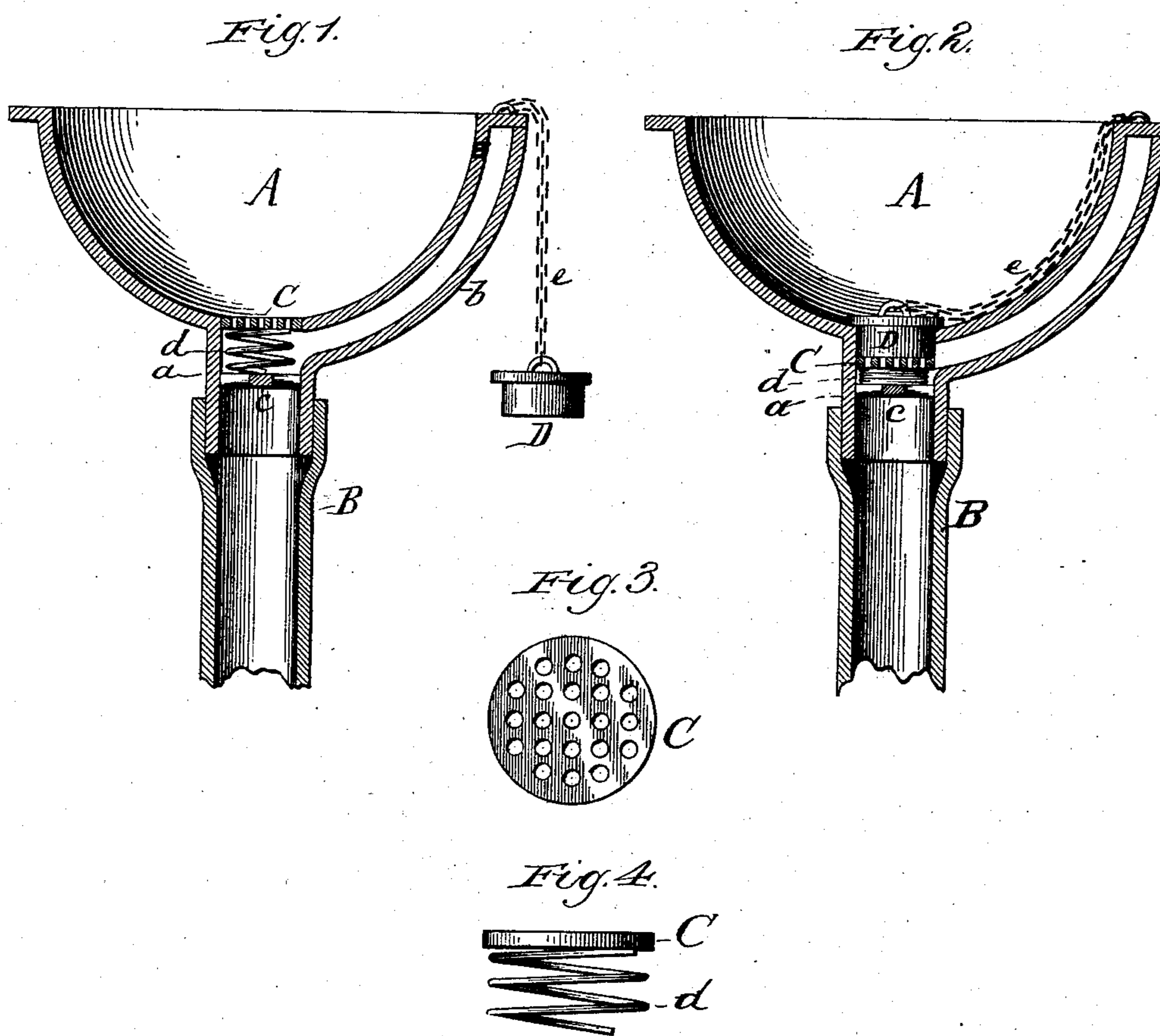


(No Model.)

H. S. DANZIGER.  
WASTE PIPE PROTECTOR.

No. 302,110.

Patented July 15, 1884.



Witnesses.

*Wm. B. Clagett*  
*Louis Nolting*

Inventor.

*Heinrich S. Danziger*  
By *Wm. H. Lotz*  
*Atty.*

# UNITED STATES PATENT OFFICE.

HIRSCH S. DANZIGER, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO  
CLARENCE M. ROGERS, OF SAME PLACE.

## WASTE-PIPE PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 302,110, dated July 15, 1884.

Application filed January 23, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, HIRSCH S. DANZIGER, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Waste-Pipe Protectors, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improved means for keeping clear the discharge-pipes of basins, &c.

The object of the invention is to provide means whereby all dirt, hair, soap, and other foreign substances are prevented from entering the discharge-pipe of basins, &c.; and to that end it consists of the novel devices and combination of devices described and claimed.

Reference will be made to the accompanying drawings, in which Figure 1 is a sectional view of a basin, showing the discharge open for the escape of water; Fig. 2, a similar view with the stopper in place; Fig. 3, a plan of a perforated disk to be placed in the discharge-opening; and Fig. 4, a front elevation of said disk and means for keeping it in position.

Like letters refer to like parts in each view.

A represents a basin, provided with the ordinary discharge-pipe, *a*, and waste-channel *b*. Discharge-pipe *a* is inserted into pipe B, as usual, and situated within said pipe *a* are the usual cross-pieces, *c*, now used to retard and collect all foreign substances. A perforated disk, C, made of any suitable material, and of a suitable size, is placed within the discharge-pipe *a*, and to the lower face of such disk one end of a spring, *d*, is secured, the opposite end of said spring resting upon the cross-pieces *c*, before referred to. These last-named parts

are so arranged that when the stopper D, which may be attached to the basin by chain *e*, is removed to allow of the escape of the water, the disk C is flush with the surface of the basin, as shown in Fig. 1, and thus collects in the basin all foreign substances which would clog the pipe. When the stopper D is inserted into the discharge-opening of the basin, the spring *d* is contracted, and the parts occupy the position shown in Fig. 2, the spring *d* being of such size and strength that it will serve to force the disk C to its position when the stopper is removed, but will not force the stopper from its seat.

By the arrangement of parts as described, all foreign substances are collected before entering the discharge-pipe, and may be easily removed from the basin, and therefore all annoyances arising from the clogging of the pipes are avoided.

I am aware that a movable perforated cup has been placed in a waste-pipe, and do not claim such a construction; but

What I claim is—

1. The combination, with a wash-basin, of a vertically-adjustable perforated disk situated within the waste-pipe of the same, as set forth.

2. In a wash-basin, a perforated disk situated within the discharge-pipe thereof, in combination with a spring secured to said disk, whereby all foreign substances are excluded from the discharge-pipe, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HIRSCH S. DANZIGER.

Witnesses:

M. J. CLAGETT,  
LOUIS NOLTING.

Corrections in Letters Patent No. 302,110.

It is hereby certified that in Letters Patent No. 302,110, granted July 15, 1884, upon the application of Hirsch V. Danziger, of Chicago, Illinois, for an improvement in "Waste-Pipe Protectors," an error appears in the printed specification requiring correction, as follows: In line 59, the word "movable" should read *removable*; and that the Letters Patent should be read with this correction therein to make it conform to the record of the case in the Patent Office.

Signed, countersigned, and sealed this 26th day of August, A. D. 1884.

[SEAL.]

M. L. JOSLYN,  
*Acting Secretary of the Interior.*

Countersigned:

R. G. DYRENFORTH,  
*Acting Commissioner of Patents.*