

(No Model.)

J. W. GRIFFIN.

SEWER TRAP.

No. 303,430.

Patented Aug. 12, 1884.

Fig. 1.

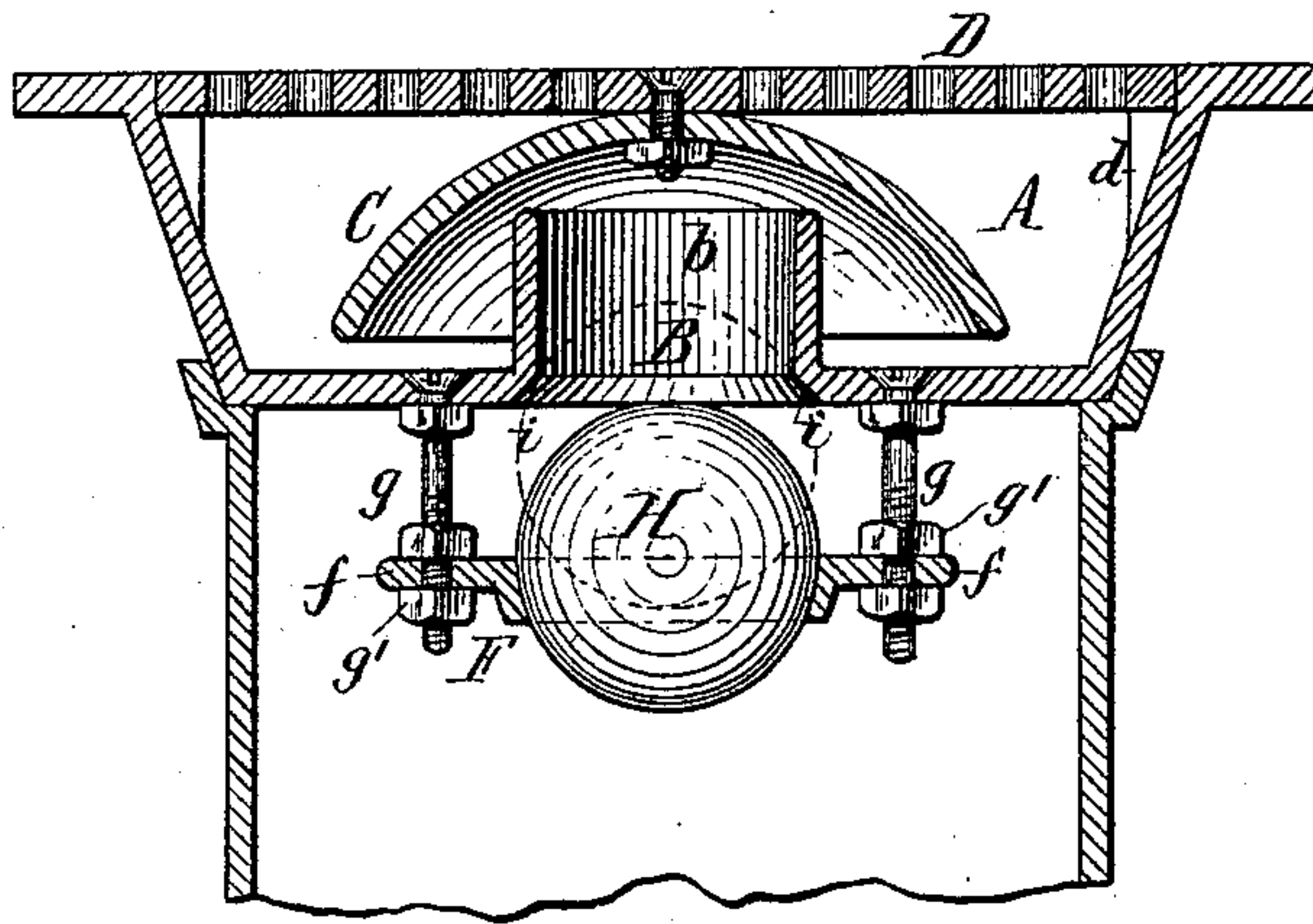
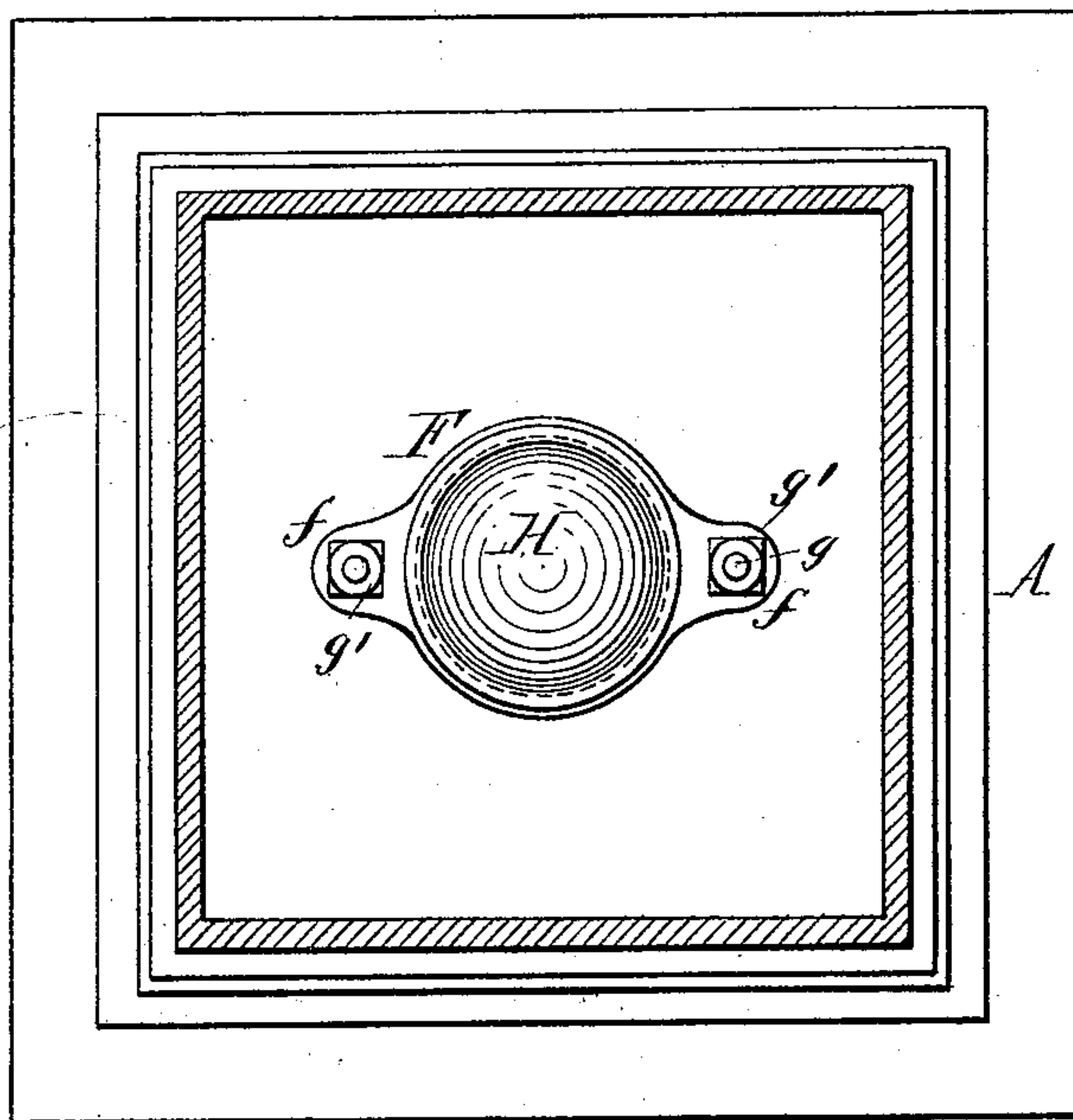


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOHN W. GRIFFIN, OF BUFFALO, NEW YORK.

SEWER-TRAP.

SPECIFICATION forming part of Letters Patent No. 303,430, dated August 12, 1884.

Application filed February 1, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. GRIFFIN, of the city of Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Sewer-Traps, of which the following is a specification.

This invention relates to that class of sewer-traps which are employed for connecting cellar-drains with a sewer, and which consists of a receiver provided in its bottom with a suitable discharge-opening having a raised mouth which is covered by an overhanging bell, whereby the trap is formed.

The object of my invention is to provide a simple and inexpensive attachment to this class of sewer-traps, whereby the discharge-opening is readily closed against a pressure of back-water in the sewer; and it consists of the improvements which will be hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a sectional elevation of my improved trap. Fig. 2 is a bottom plan view thereof.

Like letters of reference refer to like parts in both figures.

A represents the receiver, which may be of rectangular or other suitable form, and which preferably tapers downwardly and connects with the mouth of the drain leading to the sewer. B represents the discharge-opening formed in the bottom of the receiver, and *b* the raised mouth thereof. C represents the bell or curved plate, which overhangs the elevated mouth of the discharge-pipe and descends with its edge below said mouth a sufficient distance to retain the level above the edge of the bell at such a height that the gas or air cannot pass from the discharge-pipe into the receiver A. The bell C is secured to the under side of a strainer or perforated plate, D, which forms a cover for the receiver A. The cover D rests upon lugs or ears *d*, cast on the inner side of the side walls of the receiver A.

F represents an annular ring or plate sus-

pended from the bottom of the receiver A, below the discharge-opening B, by means of screw-bolts or hangers *g*. The bolts *g* are inserted through holes formed in the bottom of the receiver, and their lower ends pass through holes formed in lugs *f*, which extend laterally from the annular ring or plate F. The ring F is secured to the bolts *g* by screw-nuts *g'*.

H represents a spherical or ball valve, which is seated in a depression or valve-seat formed in the ring F, immediately below the discharge-opening B. The valve H is preferably made of rubber or other suitable light material, so as to be buoyant and of sufficient strength to resist the pressure of the back-water. In the event of any overflow or rush of back-water in the sewer the valve H is raised by the pressure of water and seats itself against the discharge-opening B, and the flooding of water through the trap and into the cellar is thereby prevented.

The lower end of the discharge-opening B is preferably beveled or inclined, as shown at *i*, to form a close seat for the valve H.

I claim as my invention—

1. The combination, with the receiver A, provided with the discharge-opening B, of a ball-valve, H, seated in an annular plate, F, arranged below the discharge-opening B, substantially as set forth.

2. The combination, with the receiver A, provided with the discharge-opening B, having an elevated mouth, *b*, and bell C, of an annular ring or valve-seat, F, suspended from bottom of the receiver A by bolts *g* and screw-nuts *g'*, and a ball-valve, H, seated in the annular ring F below the discharge-opening B, substantially as and for the purpose set forth.

Witness my hand this 26th day of January, 1884.

JOHN W. GRIFFIN.

Witnesses:

JNO. J. BONNER,
CHAS. F. GEYER.