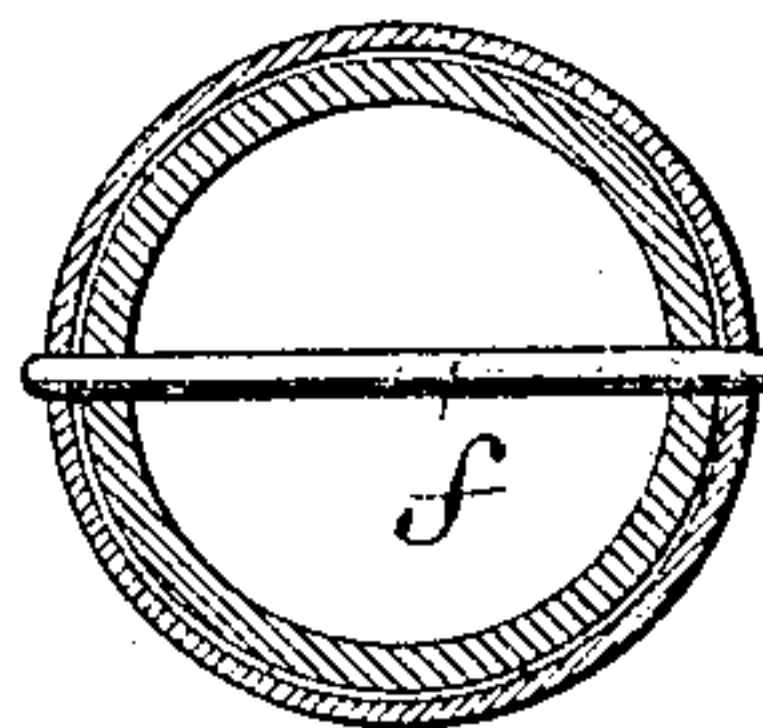
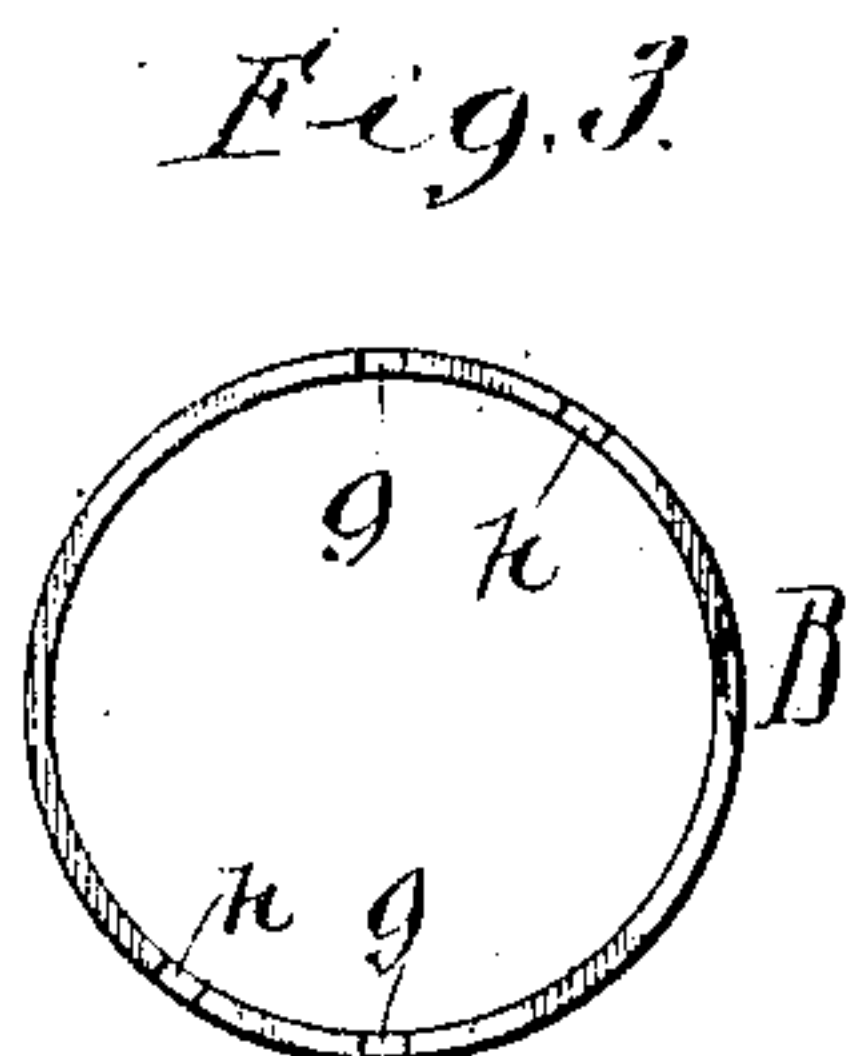
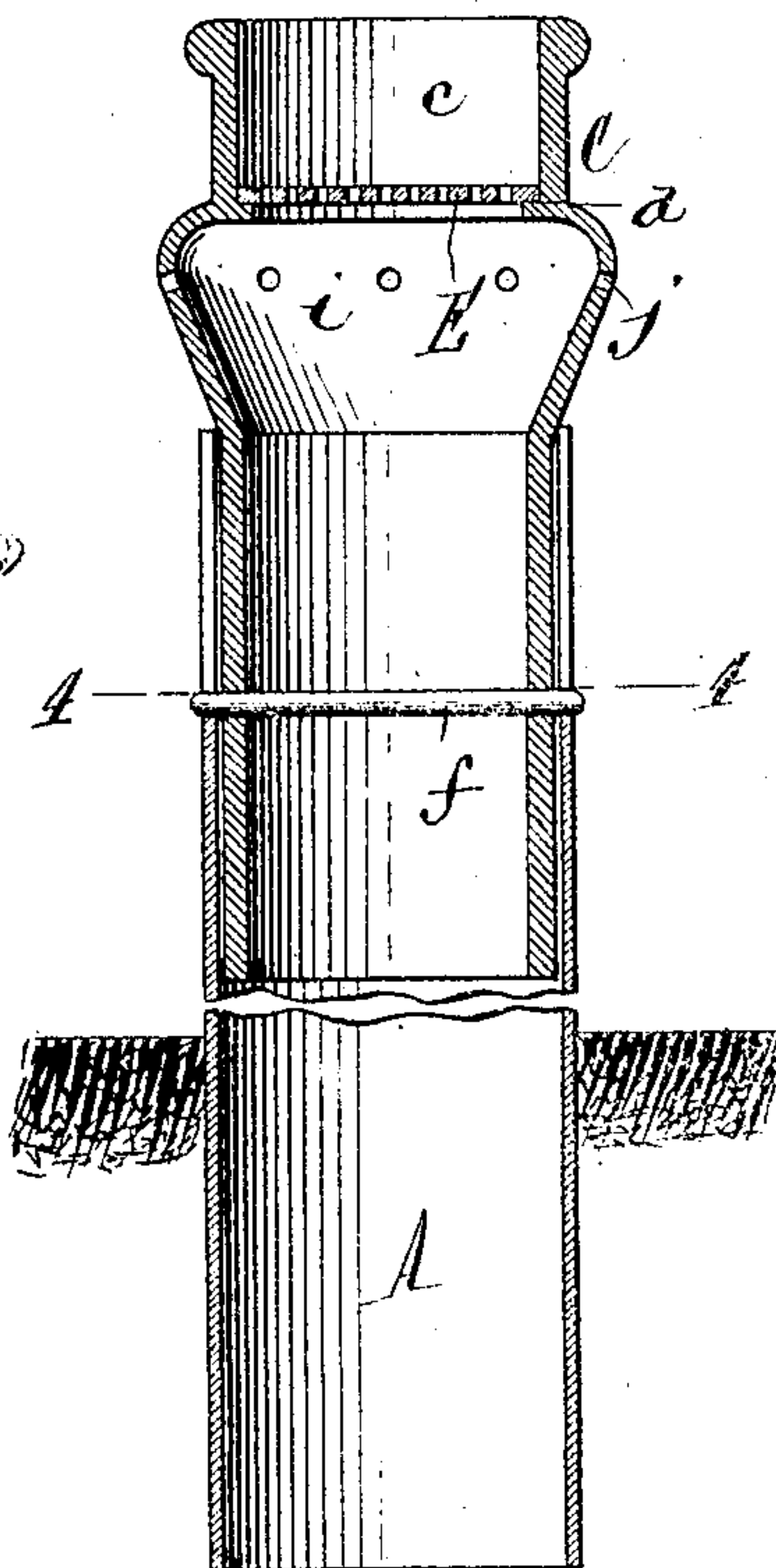
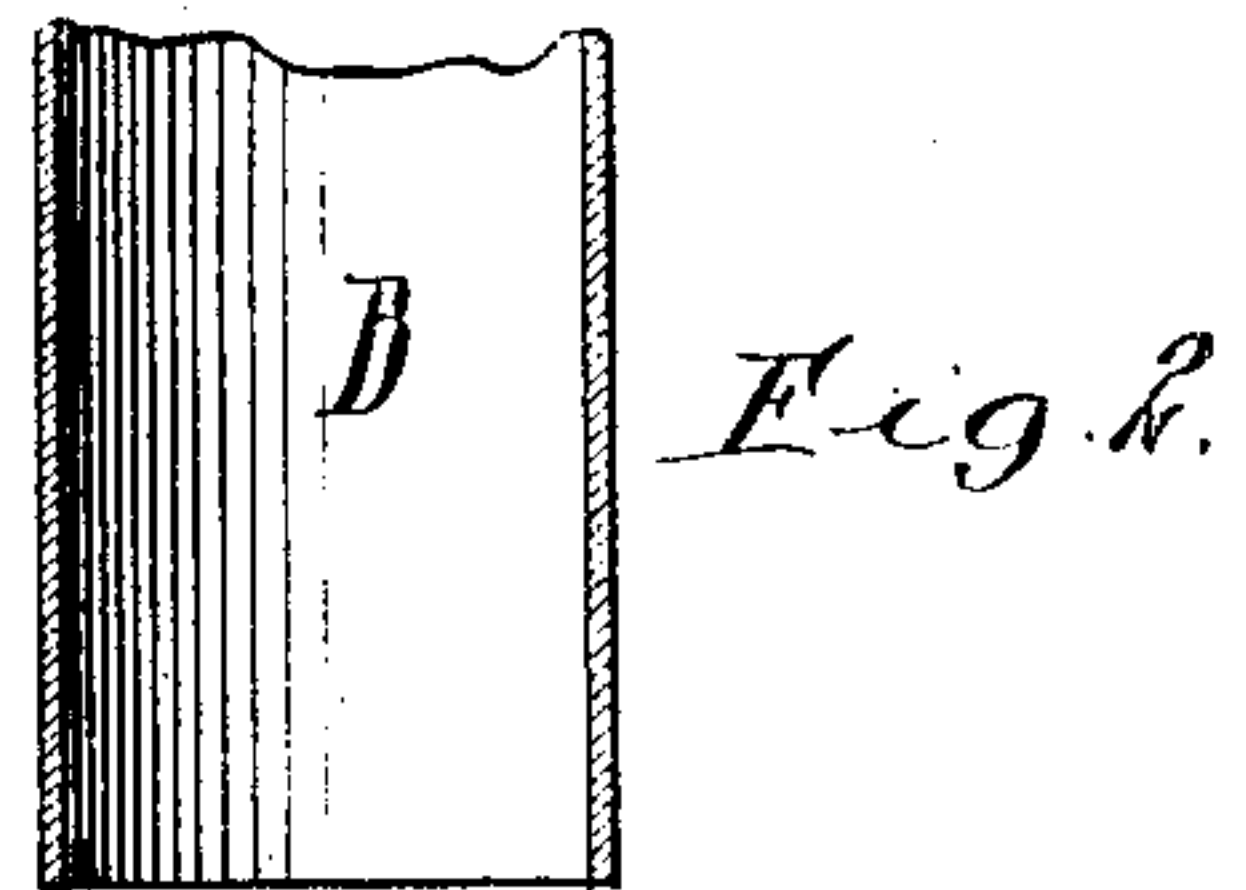
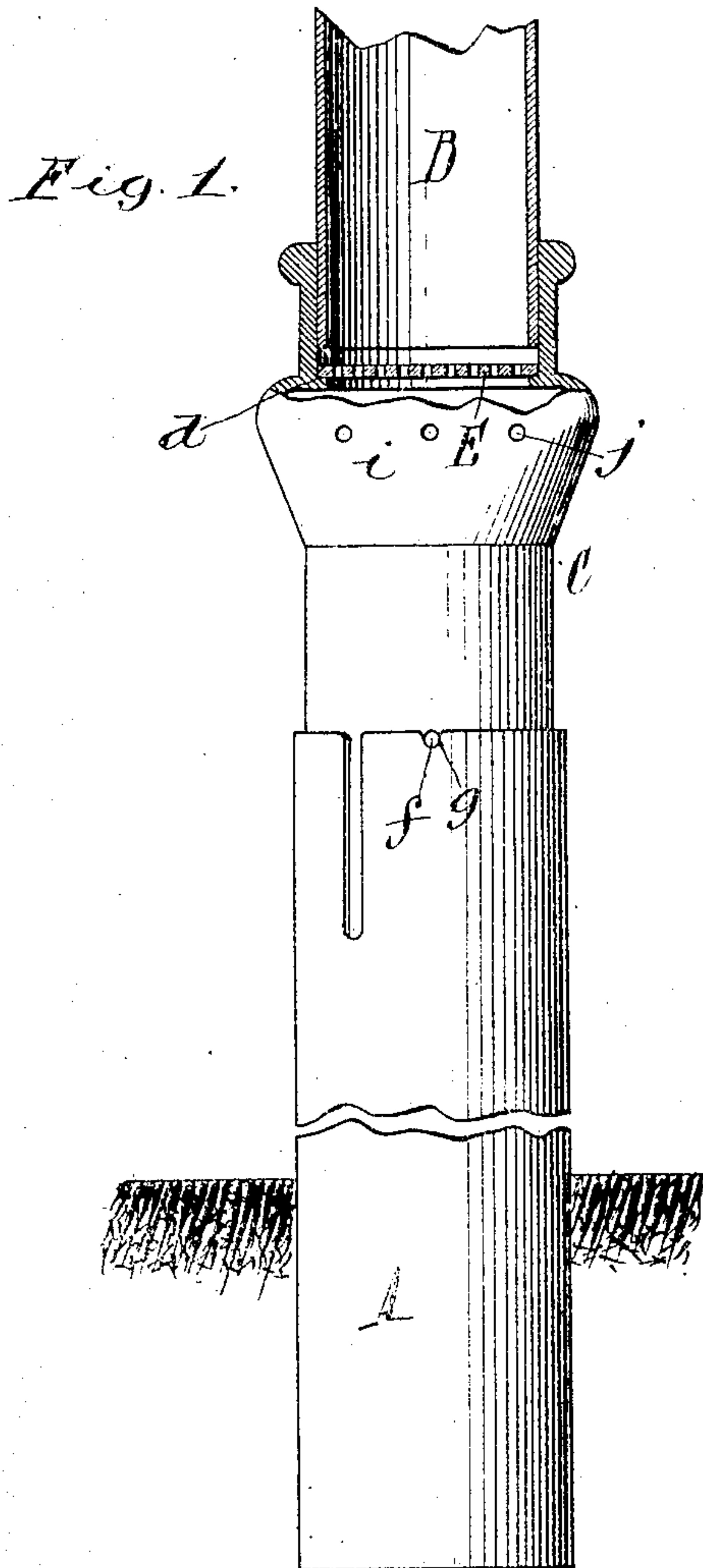


W. G. CRAMER.
SEWER AND GUTTER PIPE CONNECTION.
APPLICATION FILED APR. 1, 1908.

916,275.

Patented Mar. 23, 1909.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM G. CRAMER, OF BUFFALO, NEW YORK.

SEWER AND GUTTER PIPE CONNECTION.

No. 916,275.

Specification of Letters Patent.

Patented March 23, 1909.

Application filed April 1, 1908. Serial No. 424,655.

To all whom it may concern:

Be it known that I, WILLIAM G. CRAMER, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Sewer and Gutter Pipe Connections, of which the following is a specification.

This invention relates to the pipes employed for connecting the conductor or gutter pipe of a building with the sewer.

The object of the invention is the provision of a connection of this character which permits the ready separation of the gutter pipe from the pipe leading to the sewer, so that any accumulations or obstructions can be conveniently removed from the pipes, and the sewer can be flushed by water introduced at that point, if desired.

In the accompanying drawings: Figure 1 is a side elevation of the connection, partly in section, showing the same in its normal position. Fig. 2 is a vertical section, showing the connection lowered to afford access to the separated pipes. Fig. 3 is a top plan view of the lower pipe. Fig. 4 is a cross section in line 4-4, Fig. 2.

Similar letters of reference indicate corresponding parts throughout the several views.

A indicates a lower pipe partly embedded in the ground and connected with the sewer, not shown; B indicates the conductor or gutter pipe extending down from the eave-trough of the building and C an intermediate connection or pipe connecting the gutter pipe with the lower pipe A. The intermediate pipe is provided at its upper end with a mouth or socket *c* which receives the lower end of the gutter pipe and which is preferably provided with an internal shoulder *d* upon which rests a removable perforated plate or screen E. This plate intercepts sticks, leaves, etc., preventing the same from dropping into the sewer and clogging it. The intermediate pipe C telescopes into the lower pipe A and is provided with a transverse pin *f*, the ends of which project beyond its sides and normally engage seats or notches *g* in the upper edge of said lower pipe, thereby supporting the intermediate pipe in its elevated position in which it connects the gutter pipe with the lower pipe, as shown in Fig. 1. Cut of line with the notches *g*, the lower pipe A is provided with diametrically opposite longitudinal slots *h* extending downward from its upper edge and adapted to receive

the ends of the pin *f*. By this construction, upon raising the intermediate pipe C to disengage its pin from the notches *g* and turning the pipe to bring the pin in register with the slots *h*, said pipe can be lowered in or on the lower pipe A sufficiently to withdraw its mouth *c* from the lower end of the gutter pipe, as shown in Fig. 2. In this position, the screen E and any accumulations thereon can be removed from the intermediate pipe and a hose or hose nozzle inserted in the latter for flushing the pipe A and the sewer to which it leads. After flushing the sewer, the screen E is replaced and the intermediate pipe section is raised to its normal position and turned to seat its pin in the notches *g*. In order to permit the intermediate pipe section to be lowered as above described, the slots *h* are sufficiently longer than the mouth or portion of the pipe C which receives the gutter pipe, as shown in the drawings.

The intermediate pipe may be of uniform diameter throughout its length, but the portion thereof immediately below the screen E is preferably enlarged, as shown at *i*, and this enlargement contains one or more ventilating openings *j* by which the interior of said pipe and the gutter pipe communicate with the outer atmosphere. By this construction an ascending draft or air current is created through the gutter pipe which dries its interior and prevents it from rusting. As the ventilating openings are located in the enlargements *i* where they are outside of the bore of the gutter pipe, the descending water passes directly through the pipe into the sewer without escaping through said openings. These openings also serve as relief apertures which permit the escape of the water at that point in case the water in the sewer should back up into the pipe or connection C, owing to heavy rainfalls or other causes, thereby preventing overflowing of the water through a closet, cess pool or other receptacle connected with the sewer.

I claim as my invention:—

1. The combination of a lower pipe adapted to be connected with a sewer, a gutter pipe, and a rotatable intermediate pipe telescopically connected with said pipes and vertically movable on the lower pipe to a sufficient extent to disconnect its upper end from the gutter pipe, the intermediate pipe having a projection adapted to rest upon the lower pipe in the normal elevated position of the intermediate pipe, and the lower pipe hav-

ing a longitudinal slot extending downward from its upper edge and adapted to receive said projection to permit the intermediate pipe to be lowered on said slotted pipe.

5 2. The combination of a lower pipe adapted to be connected with a sewer, a gutter pipe, and a rotatable intermediate pipe telescopically connected with said pipes and vertically movable on the lower pipe to a sufficient extent to disconnect its upper end from
10 the gutter pipe, said lower pipe being provided in its upper edge with a locking notch and out of line with said notch with a longitudinal slot extending downward from said
15 edge, and the intermediate pipe having a projection adapted to engage said locking notch to support and lock the intermediate pipe in its normal raised position and to engage said slot to permit the intermediate pipe
20 to be lowered on said slotted pipe.

3. The combination of a lower pipe adapt-

ed to be connected with a sewer, a gutter pipe, a rotatable intermediate pipe telescopically connected with said pipes and vertically movable on the lower pipe to a sufficient extent to disconnect its upper end from the gutter pipe, said intermediate pipe being provided near its upper end with an internal shoulder, below said shoulder with an enlargement having vent openings and below
30 said enlargement with a projection, said lower pipe having a longitudinal slot extending downward from its upper edge and adapted to receive said projection, and a screen removably supported on said shoulder. 35

Witness my hand this 27th day of March, 1908.

WILLIAM G. CRAMER.

Witnesses:

THEO. L. POPP,
E. M. GRAHAM.