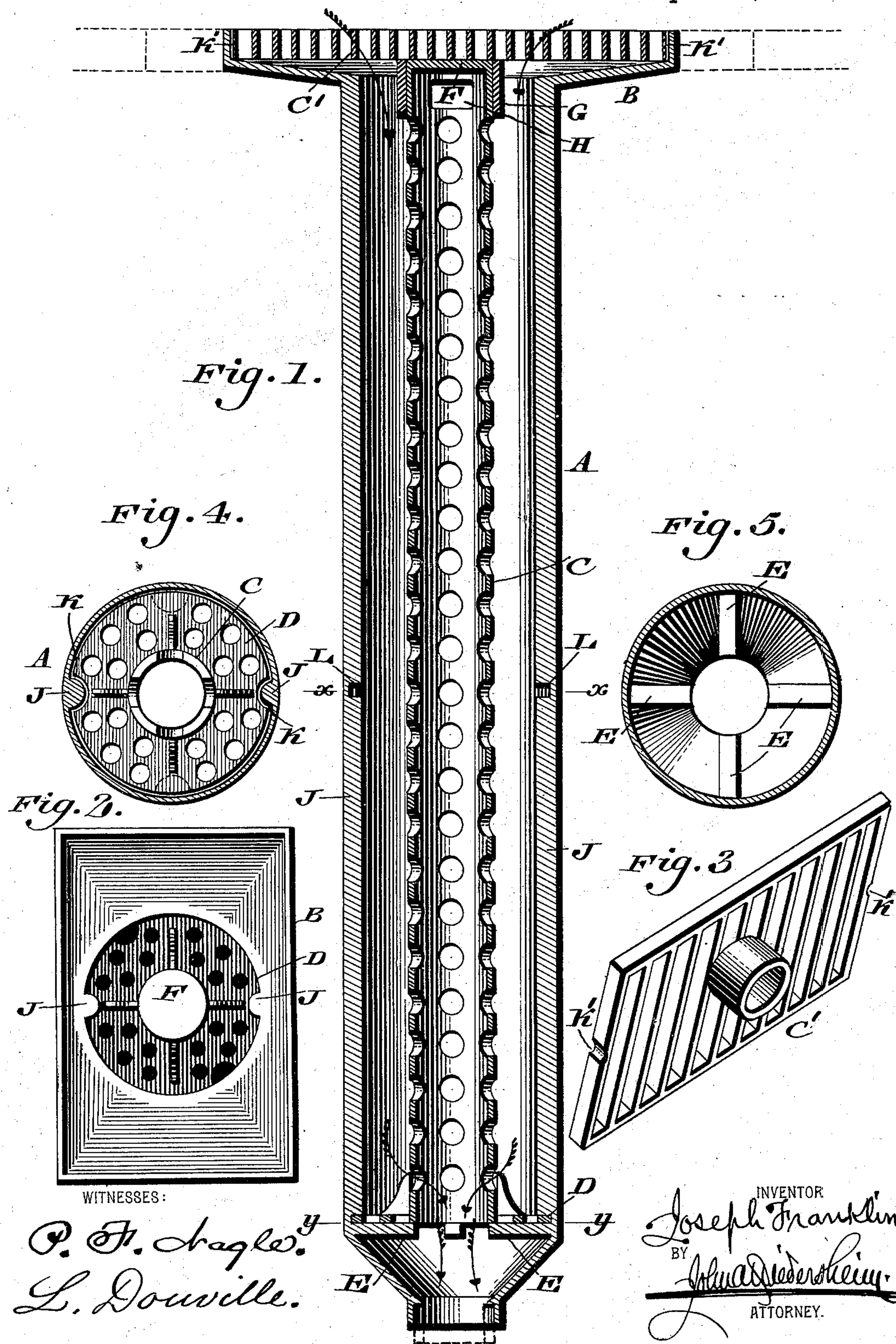


(No Model.)

J. FRANKLIN.
DRAIN.

No. 568,195.

Patented Sept. 22, 1896.



UNITED STATES PATENT OFFICE.

JOSEPH FRANKLIN, OF PHILADELPHIA, PENNSYLVANIA.

DRAIN.

SPECIFICATION forming part of Letters Patent No. 568,195, dated September 22, 1896.

Application filed April 18, 1896. Serial No. 588,171. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH FRANKLIN, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Drains for Sewer-Inlets, Hydrants, &c., which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a drain for a sewer-inlet, hydrant, &c., so constructed that water may readily enter and pass through the strainer of the same, while dirt and collections may be trapped and removed, provision being also made for preventing the insertion of sticks, stones, refuse, &c., into the strainer at the surface.

Figure 1 represents a vertical section of a drain embodying my invention. Fig. 2 represents a top view thereof, the grating having been removed. Fig. 3 represents a perspective view of the grating. Fig. 4 represents a horizontal section on line $x x$, Fig. 1. Fig. 5 represents a horizontal section on line $y y$, Fig. 1.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates a vertically-arranged casing or jacket which is provided at top with the frame B for supporting the grating C' thereon.

C designates a perforated pipe which is located within the casing A and provided at its lower end with the perforated disk or foot D, which constitutes a diaphragm, strainer, and scraper, the same being supported on the feet E on the interior of the casing A, near the discharge end thereof.

The top of the pipe C is closed by the wall F, and the adjacent portion is freely encircled by the collar G, which also covers the openings or notches H of said pipe, said collar depending from the grate C'.

On the inner side of the casing A are vertical ribs or beads J, which are adapted to enter the horizontally-arranged recesses K on the periphery of the disk D, whereby the latter is guided within the casing in removing and replacing the same.

On the inner side of the casing is a peripheral groove L, which is adapted to receive the periphery of the disk D when the

pipe C is sufficiently raised, so that the same may be supported when so raised for temporary purposes, as will be hereinafter further explained.

The operation is as follows: The water and matter passing through the grating enters the casing A, after which the water is drained into the pipe C, while the matter collects in the casing above the disk D, which, being perforated, also allows the water to pass therethrough, the water in either case then entering the bottom of the casing A, by which it is directed to a sewer or other place of discharge. It will here be noticed that the top of the pipe C is closed, so that sticks, stones, &c., cannot be inserted into said pipe through the grating, and clogging of the pipe from such sources is accordingly prevented.

When the collections in the casing are to be removed, the grating is displaced, and the pipe C is then grasped at the openings or notches H, (which are now uncovered,) the pipe then being drawn up. The disk D now lifts the collections, while also scraping the sides of the casing.

In order to temporarily sustain the pipe C before it has reached the top of the casing, the same is turned when the disk D has reached and registered with the groove L, so that the grooves K leave the beads J, and the disk is then rested on the lower wall of said groove L, thus sustaining the pipe on said wall.

The grating has notches K' in its sides for the insertion of a suitable implement for prying up or raising the same.

The device also provides means for ventilating the sewer or other conduit to which it may be applied.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a drain, a casing, a grating thereon, a strainer-pipe in said casing, feet on said pipe, and a support in the casing for said feet, said casing being open at top and bottom, and said pipe being closed at top and the parts combined substantially as described.

2. In a drain, a casing, the strainer-pipe C with the closed top F, openings H below the same, the grating C' having the collar G which encircles said openings and is remov-

able from said pipe, and means in said casing for supporting said pipe substantially as described.

3. In a drain, a casing, a grating on said
5 casing, a strainer-pipe having a perforated
foot supported in the casing, a collar connected with said grating and freely embracing the upper closed end of said pipe, said
10 foot serving as a scraper for the inside of said casing, and the parts being combined, substantially as described.

4. In a drain, a pipe having a perforated

foot, with a recess in the periphery thereof, and a casing for said pipe provided on its interior with a vertical bead, adapted to enter 15
said recess, and a horizontally-arranged recess, to receive the periphery of said foot, when the latter is rotated, substantially as described.

JOSEPH FRANKLIN.

Witnesses:

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