(No Model.)

F. DERNHAM.

Sewer.

No. 232,948. Patented Oct. 5, 1880.

Fig. 1.

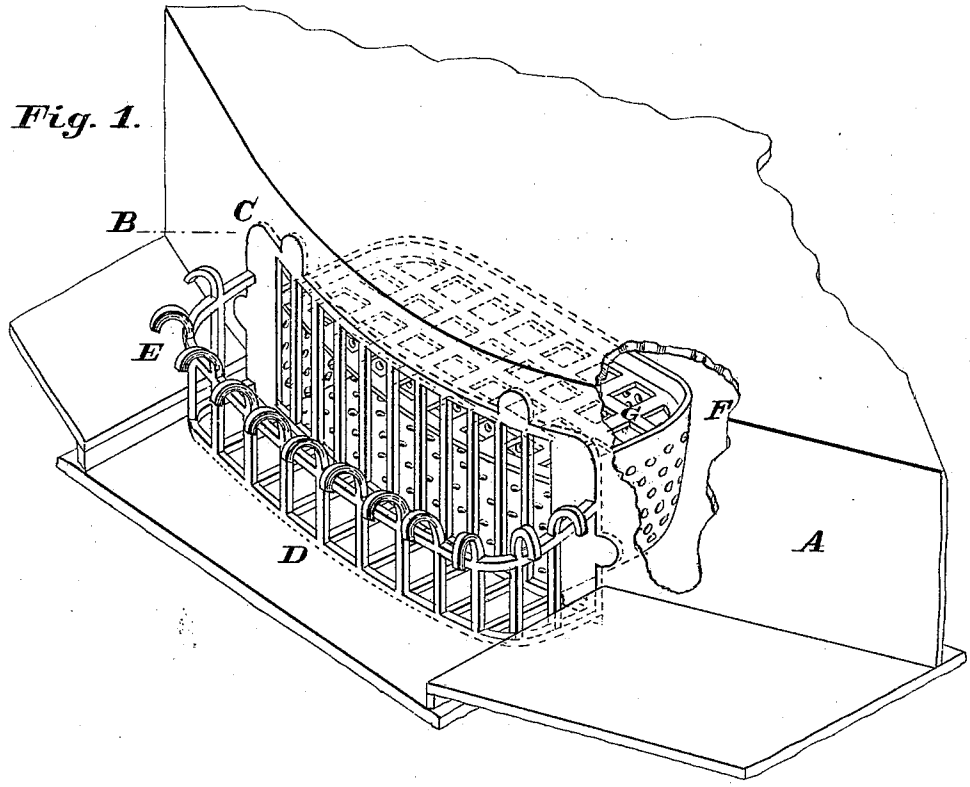


Fig. 2.

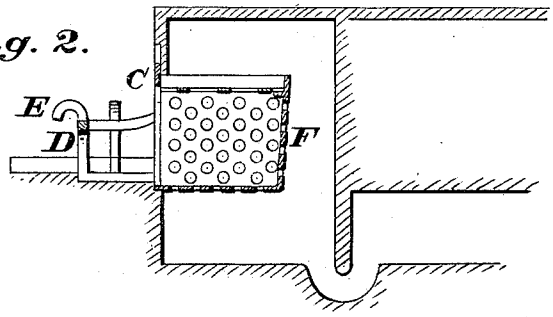
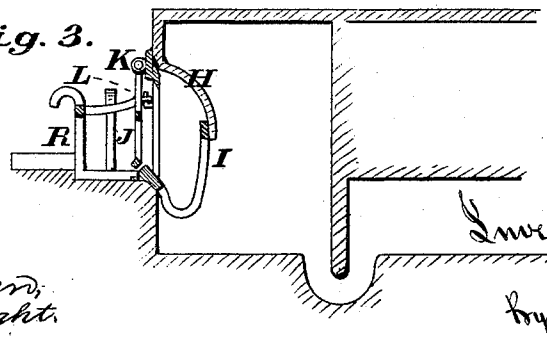


Fig. 3.



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UNITED STATES PATENT OFFICE.

FANNY DERNHAM, OF CINCINNATI, OHIO.

SEWER.

SPECIFICATION forming part of Letters Patent No. 232,948, dated October 5, 1880.

Application filed July 23, 1880. (No model.)

To all whom it may concern:

Be it known that I, FANNY DERNHAM, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Sewer Grating or Protector, of which the following is a specification.

My invention has for its object the prevention, to a large extent, of the accumulation in the sewer or catch-basin of bulky and pestilential débris. I employ for this purpose, at the entrance of the sewer, a series of grated screens or fenders, so formed as to arrest and retain all the more bulky matters that are brought to the sewer-inlet by the gutter.

In the accompanying drawings, Figure 1 is a perspective view of a sewer-inlet provided with one of my grated protectors. Fig. 2 is a vertical section of the same. Fig. 3 represents, by a similar section, a modification of my protector, adapted for use with that form of sewer-inlet which has a verge or flange projecting downwardly and inwardly from its crown.

A represents a sewer-inlet; B, the mouth or opening thereof. Adapted to fit and occupy the mouth B is a vertical grating, C, attached to and extending from whose front is a grated fender, D, whose bars are somewhat more widely separated than those of the grating C. Projecting upwardly and forwardly from the top of fender D are curved claws E, for the detention of such bulky objects as branches of trees, fragments of lumber, rags, straw, and garbage. Attached to rear of grating C is a perforated or finely-grated catch-box, F, which is adapted to retain the major portion of such solid matters as traverse the openings of the gratings C and D. The catch-box F may be closed on top by a grated lid or cover, G.

In operation, my protector, as often as it becomes charged with street-washings, is drawn from the inlet and lifted by means of a derrick, such as city scavengers are commonly provided with, and relieved of its contents by dumping the same in the scavenger's wagon, after which the empty protector is returned to its place in the inlet.

For those sewer-inlets which have a verge, H, a downwardly-projecting grate, I, may take the place of the grating C, and discharge the functions of the catch-box, while those of the grating C may be discharged by a hanging grating, J, which, being hinged at K to the grate I, occupies the entrance of said grate in the manner shown in Fig. 3.

A fender, R, similar to fender D, is secured in position by engaging over hooks L, on the grate-front.

Whatever form be adopted, my protector will consist, essentially, of a series of grated receptacles of gradually-increasing fineness in direction of the drain.

My invention is designed to prevent, to a large and important extent, the accumulation of pestilential obstructions in the sewer, by providing a means of separating the solid from the fluid portions, which enables the scavenger to remove such solid portions before they have had time to ferment and become injurious.

In addition to the above-cited sanitary benefits, my invention is advantageous in an economical aspect as a labor-saving device.

I am aware that it has been proposed to place in the bottoms of sewer catch-basins various forms of traps and strainers, in order to arrest and facilitate the removal of débris, and I therefore disclaim novelty in such strainers, broadly considered.

I claim as new and of my invention—

1. The series of grated receptacles D C F, of gradually-increasing fineness, adapted to occupy the sewer-mouth and to be easily removed therefrom, substantially as and for the purposes set forth.

2. In combination with the series of sewer-gratings, the claws E, that project upward and forward from the fender D, in the manner and for the objects designated.

In testimony of which invention I hereunto set my hand.

FANNY DERNHAM.

Attest:
GEORGE H. KNIGHT,
PERCY KNIGHT.