

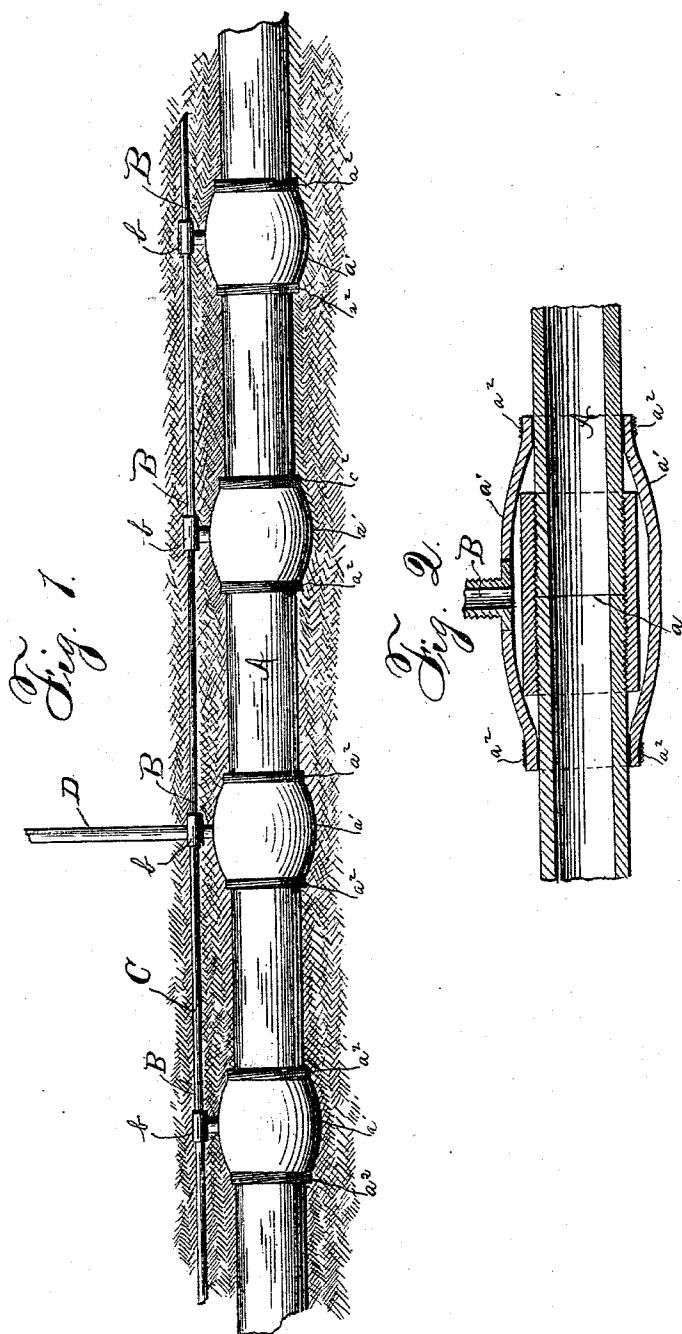
(No Model.)

H. COWELL.

MEANS FOR CARRYING OFF LEAKAGE FROM GAS MAINS.

No. 425,369.

Patented Apr. 8, 1890.



WITNESSES

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HIRAM COWELL, OF ZANESVILLE, OHIO, ASSIGNOR OF ONE-HALF TO
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MEANS FOR CARRYING OFF LEAKAGE FROM GAS-MAINS.

SPECIFICATION forming part of Letters Patent No. 425,369, dated April 8, 1890.

Application filed June 23, 1888. Renewed March 7, 1890. Serial No. 343,065. (No model.)

To all whom it may concern:

Be it known that I, HIRAM COWELL, a citizen of the United States, and a resident of Zanesville, in the county of Muskingum and State of Ohio, have invented certain new and useful Improvements in Means for Carrying Off Leakage from Gas-Mains; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to devices for collecting the escaping gas from pipes or mains.

The object is to produce a device which will prevent the escape of either sewer or illuminating gas into a house or from large mains in the streets; furthermore, to provide means for carrying off any gas that may leak from the joint and convey the same off by means of an escape-pipe, and, finally, to produce a device which shall be simple of construction, efficient and durable in use, and comparatively inexpensive of production.

In the accompanying drawings, forming part of this specification, and in which like letters of reference indicate corresponding parts, Figure 1 is a side elevation of a section of a gas-main, showing the covering on the joints and the escape-pipe for carrying off any gas that may leak out; and Fig. 2 is a longitudinal sectional view of one of the joints, showing the manner of adjusting the escape-pipe.

Referring to the drawings, A designates a main such as is usually employed for conveying gas through the streets in cities. Around each of the joints a is placed a covering a' , which may be of any elastic material, but preferably of rubber. The covering may be made in the shape of common hose, and in that case it would simply be slipped over the joints and cemented and held in place by means of a clamp or by wrapping wire around

it at each end, as shown in the drawings at a^2 . This would prevent the escape of gas at the ends and cause it to escape through the pipe B, which extends through the covering and to within a short distance of the joint. To each of the pipes B is secured a T-joint b , into which is fitted a pipe C, which connects all of the escape-pipes B all along the main. At long intervals in the length of the main are other escape-pipes D, which allow the gas to pass out into the air.

In covering very large mains it will be found very difficult to obtain rubber tubing of sufficient diameter to slip over the mains. In that case sheet-rubber may be used and the edges and ends cemented to prevent the gas escaping.

This device may be also applied to the smaller gas-pipes in a house, and also to prevent the escape of sewer gas.

It will be seen that this device may be used at but a very small expense to house owners and that all danger of leakage from the gas or sewer pipes may be overcome.

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

In combination, the sectional gas-main having ordinary couplings, separate and independent coverings secured separately about each coupling, each of said coverings being composed of flexible material placed about the couplings and secured at its end to the main, and the pipes for carrying off the escaping gas.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

HIRAM COWELL.

Witnesses:

SUMNER GARY,
DANIEL B. GARY.