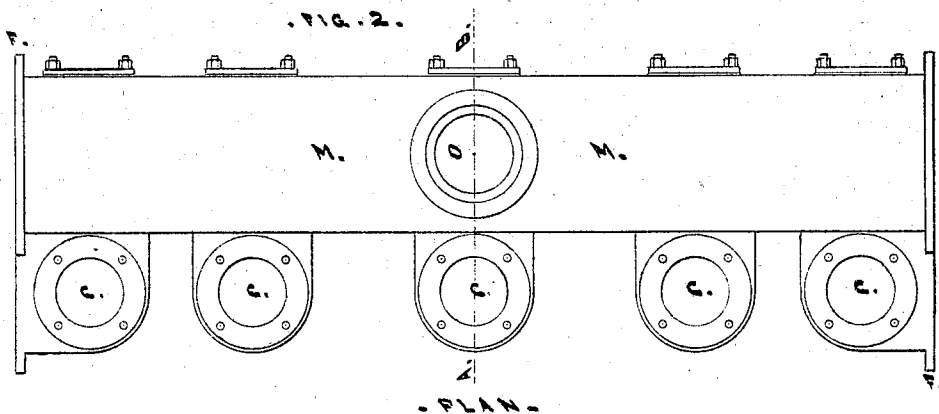
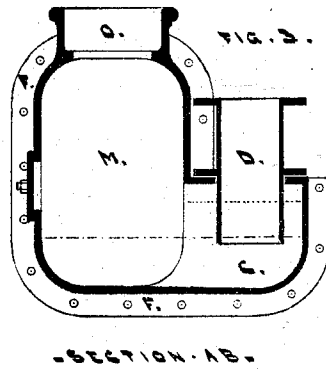
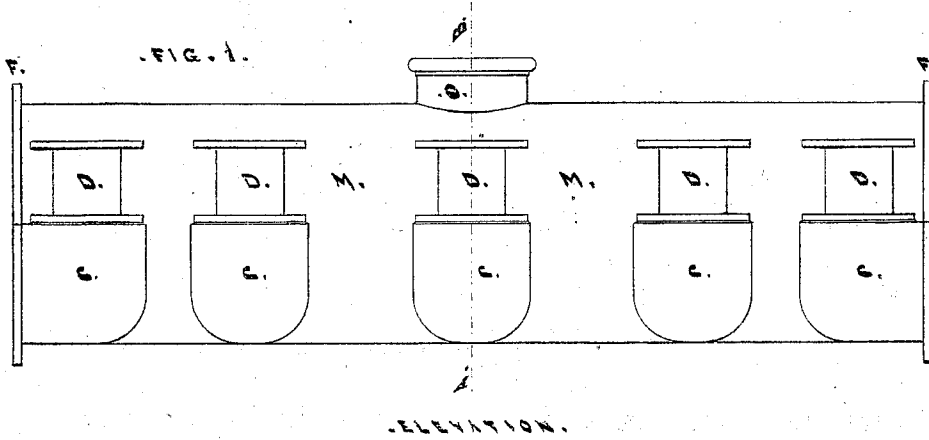


W. FARMER.

Hydraulic Mains for Gas-Works.

No. 134,874.

Patented Jan. 14, 1873.



Witnesses
A. Frecker.
Henry W. Smith

Inventor,
William Farmer.

UNITED STATES PATENT OFFICE.

WILLIAM FARMER, OF NEW YORK, N. Y.

IMPROVEMENT IN HYDRAULIC MAINS OF GAS-WORKS.

Specification forming part of Letters Patent No. 134,874, dated January 14, 1873.

To all whom it may concern:

Be it known that I, WM. FARMER, of New York, in the county of New York and State of New York, have invented certain Improvements in the Construction of Hydraulic Mains of Gas-Works, of which the following is a specification:

The invention relates to the mode of connecting the dip-pipes with the main, and of inserting them into the same; and consists in providing for each dip-pipe a lateral chamber or cup attached to the main, into which the inferior open end of the dip-pipe is inserted.

In the drawing, Figure 1 is a front elevation of a section of a main provided with my improvement. Fig. 2 is a plan of the same. Fig. 3 is a section through the line A B in Figs. 1 and 2.

M M represent the main, which may be of any approved form of section, though I prefer, for the attachment of my new dip-cups, the form represented in the drawing. C C C represent the dip-cups or chambers, into

which the dip-pipes D D D are inserted. O is the outlet of the gas from the main. F F represent one of the flanges for uniting together the sections of the main.

The advantages of this new construction are economy of material, inasmuch as the main itself may be cast lighter, and the dip and stand pipes shorter; less obstruction to the free passage of the gas from the dip to the outlet; and the convenience of insertion of the outlet-pipes at any desired point throughout the extent of the main.

Claim.

What I claim as my invention is—

The hydraulic main provided with lateral cups or chambers for the insertion of the dip-pipes, substantially as set forth.

WM. FARMER.

Witnesses:

A. FRECKER,
HENRY WÜRTZ.