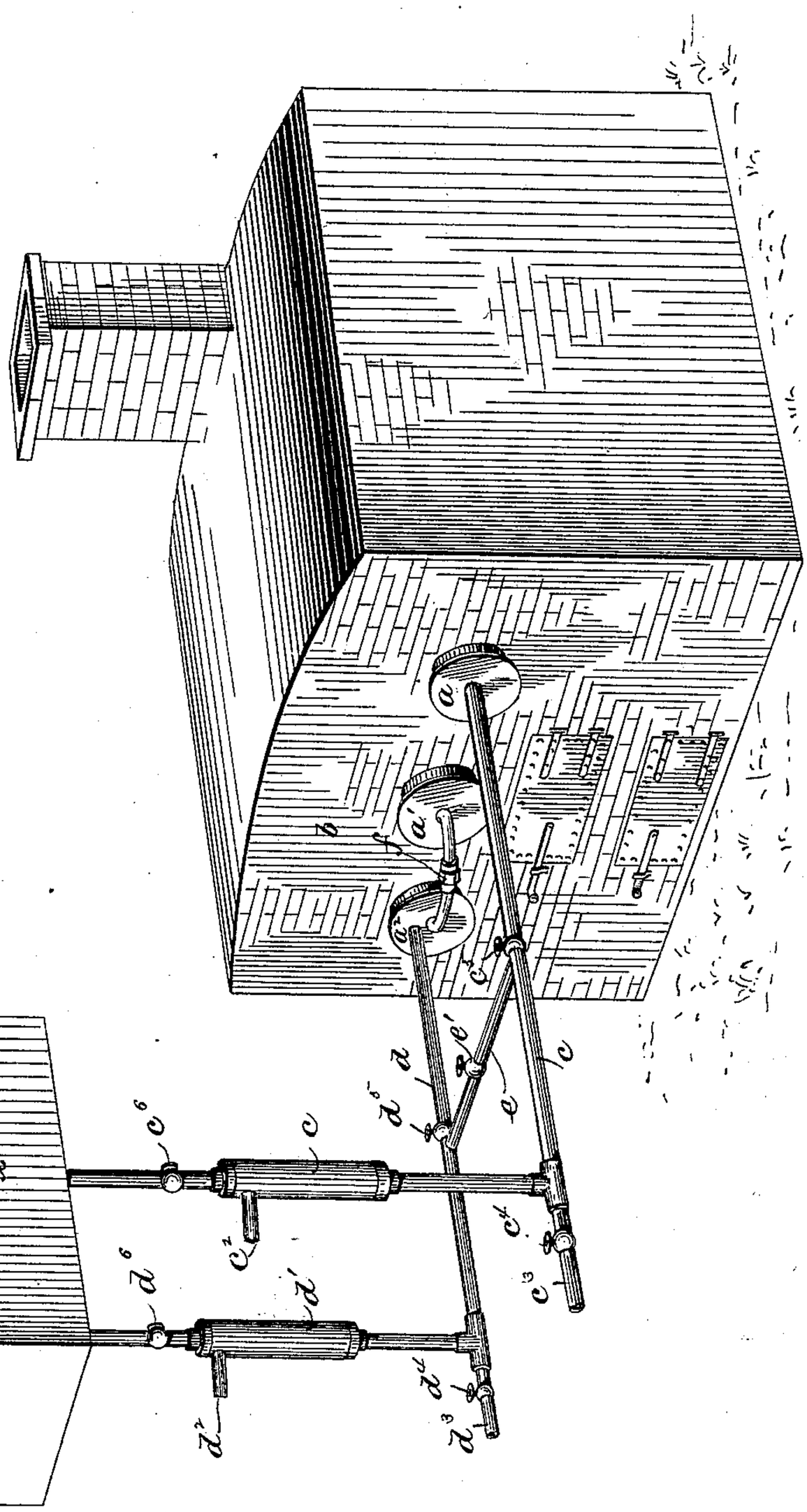
(No Model.)

A. TAYLOR.

MANUFACTURE OF GAS.

No. 359,335. Patented Mar. 15, 1887.



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MANUFACTURE OF GAS.

SPECIFICATION forming part of Letters Patent No. 359,335, dated March 15, 1887.

Application filed March 25, 1886. Serial No. 196,478. (No model.)

To all whom it may concern:

Be it known that I, ALFRED TAYLOR, of New York, in the county and State of New York, have invented a new and useful Improvement in the Manufacture of Gas; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming part of this specification, which is a perspective view of a gas apparatus showing my improvement.

My improvement consists in the arrangement of two or more feeders with the retorts, as hereinafter more fully described.

In the drawing, a a' a^2 represent the sections of the retort fixed in the furnace b. Leading into one end of the section a is the feed-pipe c, into which the feeder c' opens, the feeder being connected with the oil-supply tank x and the steam-supply pipes c^2 c^3. These conduits are provided with stop-cocks c^4 c^5 c^6. Leading into the retort-section a^3 is a feed-pipe, d, connected with the feeder d' and steam-pipes d^2 d^3, said conduits having cocks d^4 d^5 d^6. Opening into the pipes c d is a connecting-pipe, e, having a stop-cock, e'.

The retort-sections a' a^2 are connected by the U-pipe f, and the sections a a' by a similar U-pipe at the other end of the furnace, which is not shown in the drawing.

The operation is as follows: In using both the feeders at the same time the stop-cock d^5 is closed and e' is opened. The oil and steam being turned on in the usual manner, the steam and oil pass from both feeders into the pipe c and retort-section a. It often, however, is desirable to increase the amount of steam or force of the blast of vapors, according to the temperature in the retorts, and this is done by means of the steam-pipes c^3 d^3, opening the stop-cocks c^4 d^4, which increases the force of the blast.

When the retorts are highly heated, the stop-cock e' may be closed, so as to allow a portion of the supply to enter the section a, while the supply from the feeder d enters the section a^2, the gas in either case passing off through a suitable conduit leading from the far side of the retort-section a^2.

Should either of the feeders or the conduits connected therewith become clogged, the oil and steam may be fed to the retort-section a from the other feeder only by closing the proper stop-cocks, and the clogged feeder or pipe may then be removed and cleaned without interfering with or stopping the production of the gas.

Although I have shown but two feeders, more than this number may be employed, according to the number of retort-sections and size of the furnace.

I am aware that retorts having several feed-pipes leading into the retort at different points, so as to distribute the supply to different or several points in the retort, are not new, and I do not desire to claim the same.

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

1. In apparatus for the manufacture of gas from hydrocarbon oil, the combination of two or more longitudinal retorts connected with each other, a supply-tank, two or more feeder-conduits leading to ends of different retorts, a connecting-conduit between the feeders, so as to lead the supply from the feeders to a common point at one end of one of the retorts, and stop-cocks for directing the flow of the supply, substantially as and for the purpose specified.

2. In apparatus for the manufacture of gas, the combination of the supply-tank, two or more feeders, steam-pipes d^2 d^3 c^2 c^3, supply-pipes c d, a connecting-pipe, e, and stop-cocks fitted in said pipes, substantially as and for the purpose specified.

In testimony whereof I have hereunto set my hand this 8th day of March, A. D. 1886.

ALFRED TAYLOR.

Witnesses:
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C. S. DRURY.