

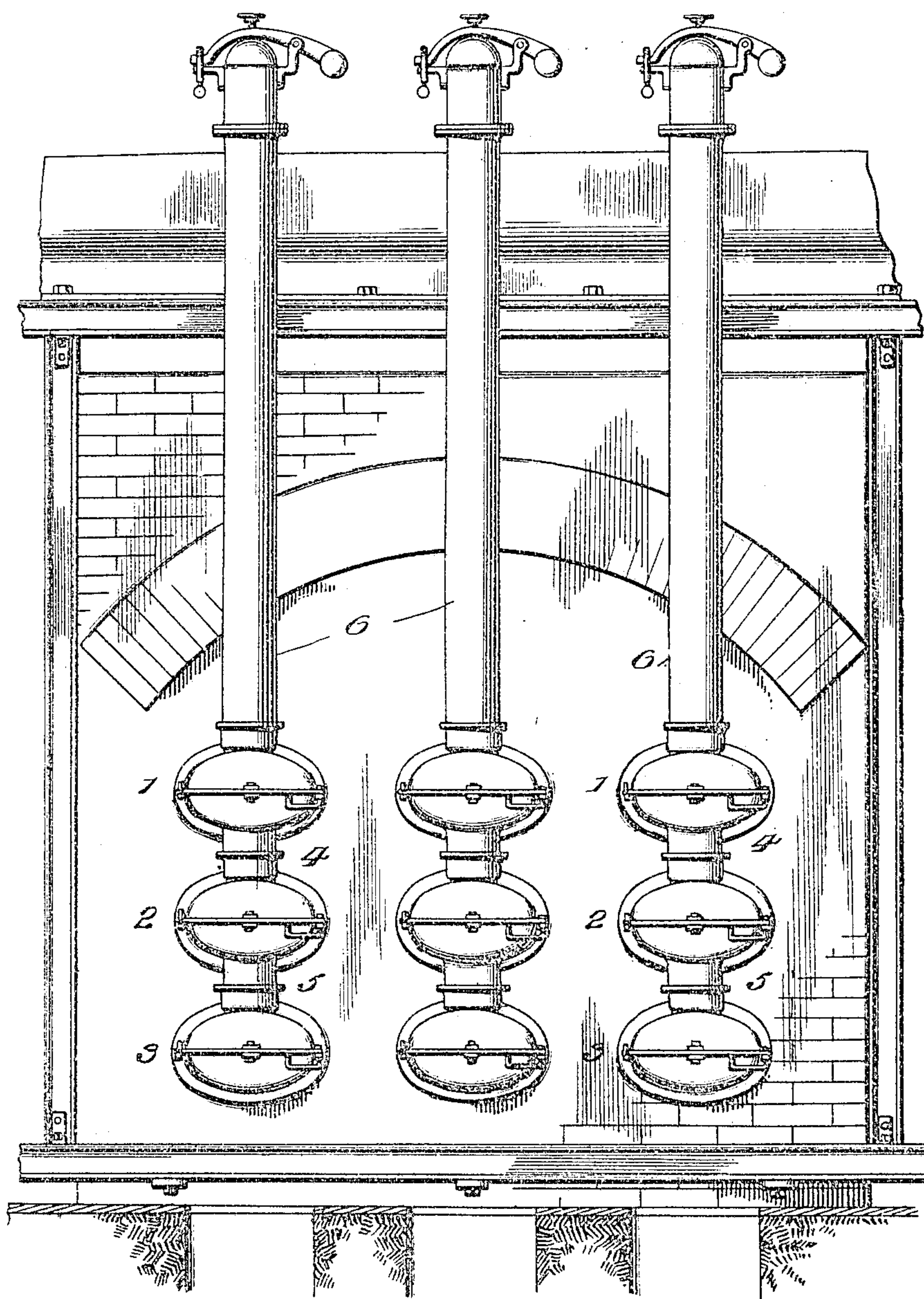
No. 787,061.

PATENTED APR. 11, 1905.

J. H. TAUSSIG.  
GAS RETORT STAND PIPE.  
APPLICATION FILED NOV. 21, 1901.

2 SHEETS—SHEET 1.

*Fig. 1.*



*Witnesses:*  
*Wm. H. H. H. H.*  
*James H. H. H.*

*Inventor.*  
*John, Stanley, Taussig.*  
*By*  
*Augustus B. Houghton.*  
*Attorney.*

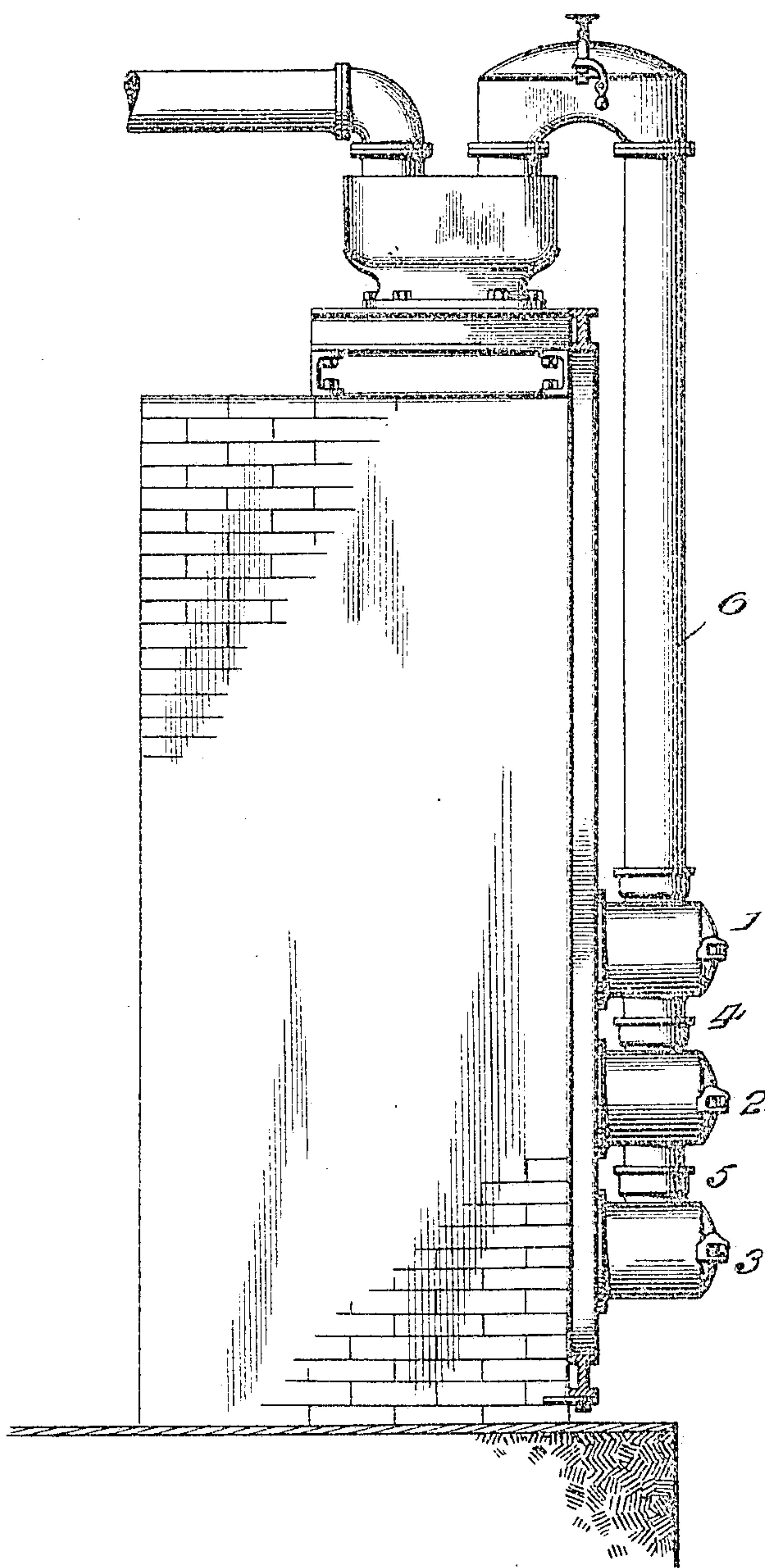
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2 SHEETS—SHEET 2.

Fig. 2.



Witnesses:  
J. H. Mayo  
J. A. Richmond

Inventor -  
John Sawley, Barrister.  
By  
Augustus B. Stoughton.  
Attorney.



# UNITED STATES PATENT OFFICE.

JOHN HAWLEY TAUSSIG, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE UNITED GAS IMPROVEMENT COMPANY, OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

## GAS-RETORT STAND-PIPE.

SPECIFICATION forming part of Letters Patent No. 787,061, dated April 11, 1905.

Original application filed January 24, 1901, Serial No. 44,598. Divided and this application filed November 21, 1901. Serial No. 83,160.

*To all whom it may concern:*

Be it known that I, JOHN HAWLEY TAUSIG, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Gas-Retort Stand-Pipes, of which the following is a specification.

This application is a division of my application Serial No. 44,598; and it has for its object to facilitate the cleaning or "bulling," as it is sometimes called, of gas-retort stand-pipes—for example, by means of the apparatus described and claimed in said pending application or otherwise.

To this and other ends hereinafter set forth the invention comprises three or more retort-mouthpieces arranged vertically the one above the other and connected together by sections of pipe which are arranged in line with each other and with a straight branchless stand-pipe.

The invention further comprises the improvements hereinafter described and claimed.

The nature, characteristic features, and scope of the invention will be more full understood from the following description, taken in connection with the accompanying drawings, forming part hereof, and in which—

Figure 1 is a front view of a bench of retorts, showing mouthpieces and stand-pipes embodying features of the invention; and Fig. 2 is a side view of the same.

In the drawings, 1, 2, and 3 designate retort-mouthpieces arranged one above the other in a vertical line. In Fig. 1 three sets of these mouthpieces are shown; but the number of sets is of course unimportant, and while three retort-mouthpieces are shown in each set the number can be changed.

4 and 5 are straight sections of pipe which connect the mouthpieces, as shown, and these sections of pipe are arranged in a vertical line with respect to each other.

6 is a straight branchless stand-pipe, which

is arranged in line with the pipe-sections 4 and 5, so that the pipes 4, 5, and 6 are in a straight line and are themselves straight, so that there is a straight run of vertical pipe down through each mouthpiece; and they can consequently be easily cleaned—for example, by means of the apparatus described in my said application or by means of any suitable instrument.

For upward of at least fifty years and in cases where in a setting there was not sufficient room to provide each mouthpiece with a separate stand-pipe it has been the custom to connect the retorts in pairs with stand-pipes of which those at the top were straight and the others curved. This was done simply for lack of room, and in such settings the stand-pipes were cleaned by inserting a flexible rod through the retort-mouth and up into the stand-pipe. Inasmuch as the presence of curved stand-pipes necessitated the working of the rod up through the retort-mouthpieces, so far as cleaning was concerned it made no difference whether the stand-pipes were straight or crooked. To work the rod upward through the stand-pipes exposed the workmen to the heat of the open retorts. They were frequently overcome by it, and the resistance offered by the curved stand-pipes to the passage of the cleaning-tool was such that great labor was required to push it through them. Contrasted with this the described arrangement or combination contemplates cleaning from the top of the stand-pipes in a location where it is cool and in a way that does not require any great or special effort on the part of a single workman, who may use a rigid tool.

It will be obvious to those skilled in the art to which my invention relates that modifications may be made in details without departing from the spirit thereof. Hence I do not limit myself to the precise construction and arrangement of parts hereinabove set forth, and illustrated in the accompanying drawings; but,

Having thus described the nature and objects of the invention, what I claim as new, and desire to secure by Letters Patent, is—

5 In apparatus for the manufacture of coal-gas the combination of a stack of retorts comprising a plurality of benches each containing vertical rows or sets of non-commu-  
10 nicating retorts having their mouthpieces in vertical alinement, a series of vertical parallel stand-pipes each one of which is straight throughout its length and is connected with the top mouthpiece of a vertical row or set of

retorts, and unobstructed gas-passages connecting each mouthpiece with the one vertically above it, whereby all of the retorts 15 of each vertical row continuously discharge through a single stand-pipe, substantially as described.

In testimony whereof I have hereunto signed my name.

JOHN HAWLEY TAUSSIG.

In presence of—

W. H. ALLEN,

J. M. RUEGENBERG.