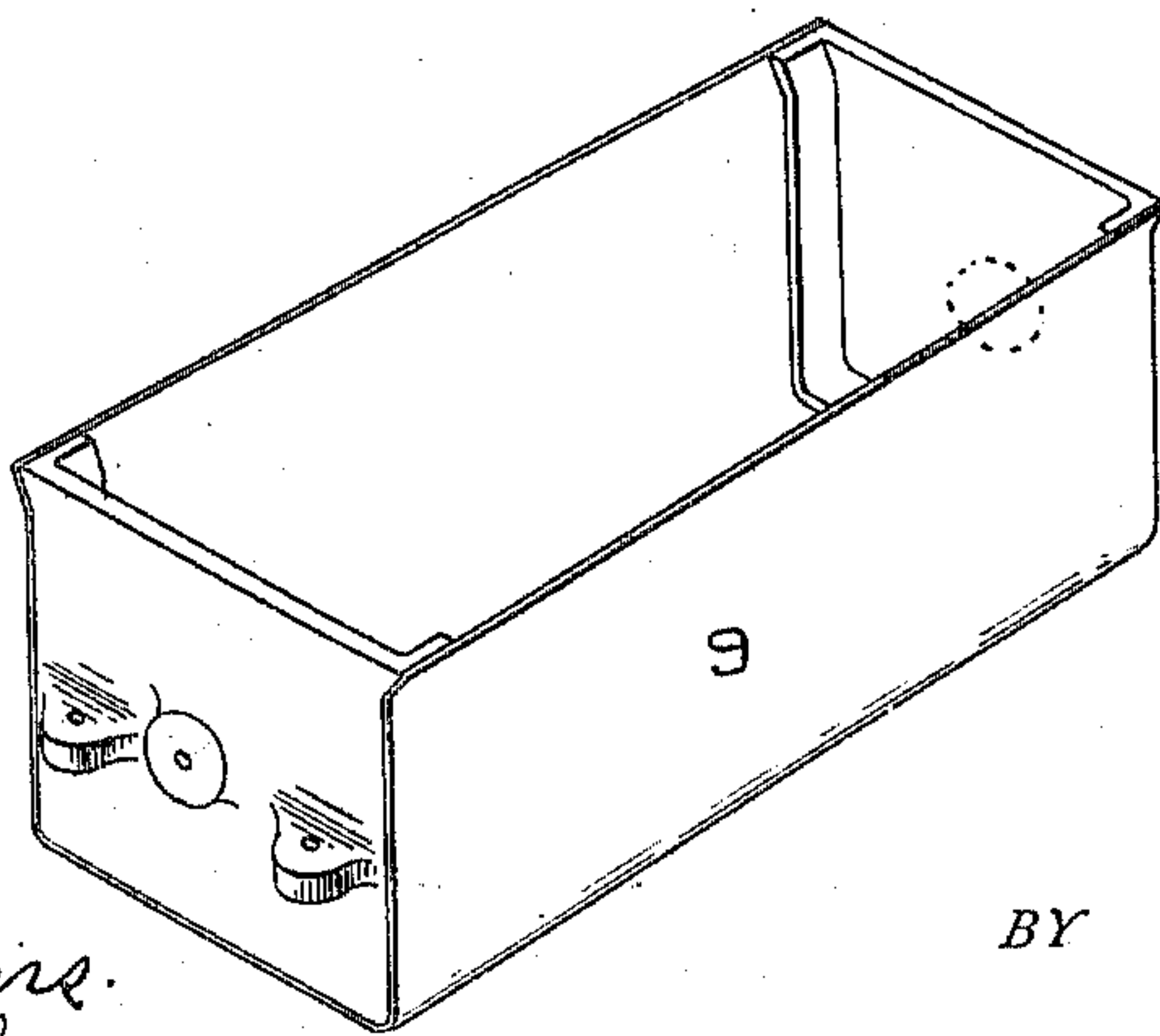
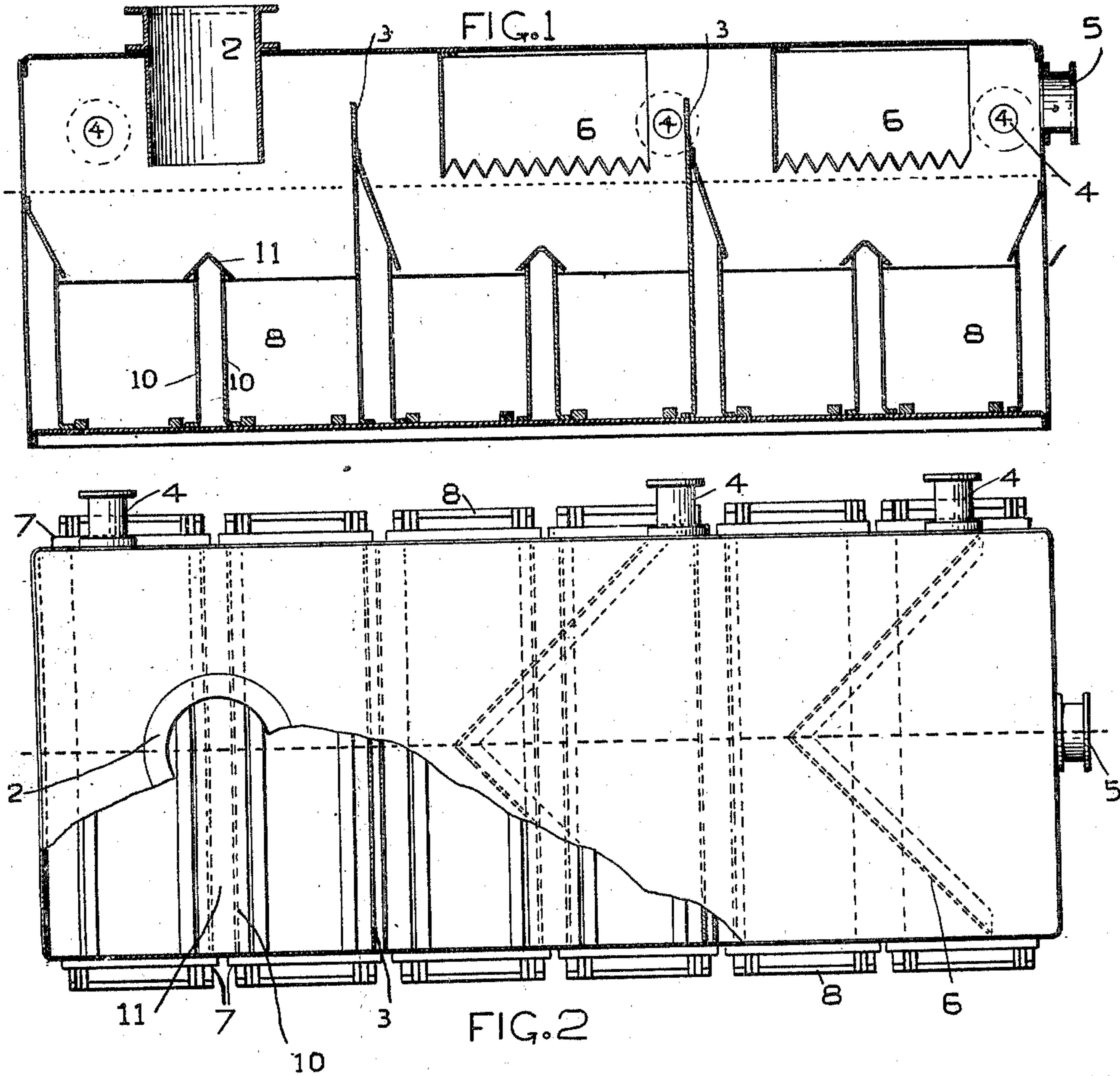


No. 817,127.

PATENTED APR. 3, 1906.

L. P. LOWE.
GAS WASHING DEVICE.
APPLICATION FILED MAY 17, 1904.



WITNESSES:

K. Lockwood-Revere.
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UNITED STATES PATENT OFFICE.

LEON P. LOWE, OF SAN FRANCISCO, CALIFORNIA.

GAS-WASHING DEVICE.

No. 817,127.

Specification of Letters Patent.

Patented April 3, 1906.

Application filed May 17, 1904. Serial No. 208,343.

To all whom it may concern:

Be it known that I, LEON P. LOWE, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Gas-Washing Devices, of which the following is a specification.

My invention relates to a gas-washing device, the object of my invention being to provide an apparatus of this character which shall be more effective for its size and cost than those heretofore provided.

My invention, therefore, resides in the novel construction, combination, and arrangement of parts for the above ends hereinafter fully specified, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a longitudinal section of the apparatus, the tar-receptacles being removed. Fig. 2 is a plan view of the same, the top being broken away. Fig. 3 is a perspective view of one of the tar-receptacles detached.

Referring to the drawings, 1 represents a rectangular casing, into which the gas enters by the inlet 2.

3 represents partitions extending transversely across the interior of the casing to a level not lower than the bottom of the overflow-pipes 4.

5 represents the outlet-opening for the gas. Between the partitions and also between one of them and the outlet-opening are washing-plates 6, depending from the top of the casing, having their lower edges serrated, as shown. In order to obtain as large an extent of gas-washing surface as possible, said plates are made V-shaped horizontally. The gas-inlet 2 extends below the water-level, determined by the outflow-pipes 4, and so, also, do the lower edges of the washer-plates, thus compelling the gas to pass through the water between each partition and washer-plate, thus causing repeated washings of the gas.

The sides of the casing have openings 7, closed by water-tight closures 8, so that through said openings can be slid transversely boxes 9, open at the top, as shown. There are two such boxes between two successive partitions, said boxes being divided by double

walls 10, surmounted by a coping 11, which prevents the material to be deposited in the box from sinking between the walls. These boxes 9 are for the purpose of collecting the tarry residue from the gas. The boxes can be withdrawn from time to time and the residue removed therefrom.

It will be seen that by this construction I have provided in a single casing means for repeatedly washing the gas and at the same time for collecting the residue thus washed therefrom.

I claim—

1. In a gas-washing apparatus, the combination of a casing, means for washing gas therein, and removable boxes in said casing for the tarry residues, partitions between the boxes and overhanging deflectors, substantially as described.

2. In a gas-washing apparatus, the combination of a casing, means for washing gas therein, and removable boxes in said casing for the tarry residues, double walls between the boxes and overhanging deflectors over the walls, substantially as described.

3. In a gas-washing apparatus, the combination of the casing, the transverse partitions extending upward from the bottom thereof, the washer-plates extending downward to a level below the top of the partitions, the casing having openings in the sides between the partitions, and the removable boxes arranged to be passed through said openings, substantially as described.

4. In a gas-washing apparatus, the combination of the casing, the transverse partitions extending upward from the bottom of the casing, the washer-plates extending downward to a level below the top of said partitions, the double transverse walls between the partitions, the copings for said walls, and the boxes inserted between said walls and partitions through openings in the side of the casing, substantially as described.

In witness whereof I have hereunto set my hand in the presence of two subscribing witnesses.

L. P. LOWE.

Witnesses:

FRANCIS M. WRIGHT,
BESSIE GORFINKEL.