

P. MUNZINGER.  
Gas-Purifier Tray.

No. 108,167.

Patented Oct. 11, 1870.

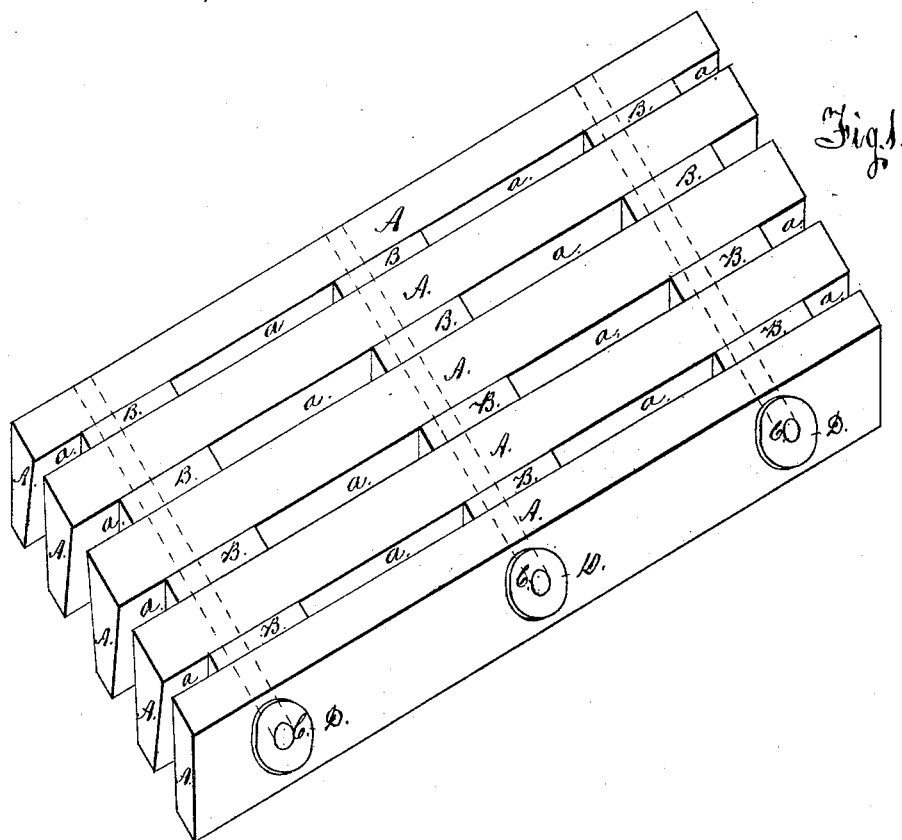


Fig. 1.

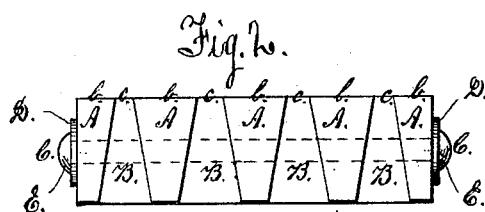


Fig. 2.

Witnesses.  
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# United States Patent Office.

PETER MUNZINGER, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 108,167, dated October 11, 1870.

## IMPROVEMENT IN TRAYS FOR GAS-PURIFIERS.

The Schedule referred to in these Letters Patent and making part of the same

I, PETER MUNZINGER, of the city and county of Philadelphia and State of Pennsylvania, have invented an Improvement in Gas-Trays for Purifiers, of which the following is a specification.

### *Nature and Object of the Invention.*

My invention consists in the use and application of binding-rods in combination with slats or strips and separating-blocks for trays for gas-purifiers, whereby the dampness of the purifier, which has heretofore been so destructive to trays or sieves, is used to preserve and strengthen the same, by swelling the wood and binding the whole together, and thereby preventing the gas from coming in contact with and destroying the rods.

### *Description of the Accompanying Drawing.*

Figure 1 is a perspective view.

Figure 2 is an end view.

A are the strips or slats, and

B, the separating-blocks, which part the strips and form openings or interstices *a*, for the passage of the gas through the lime.

The strips and blocks are firmly held and bound together by the binding-rods C.

The rods C are held in place and have washers D, over which their ends are turned and riveted, as shown at E, fig. 2. The gas does not affect the rivets, while nuts and screws are destroyed in a very short time.

The dampness of the purifier swells the blocks and strips, which tightens them together around the rods, preserving them from the action of the gas, which would otherwise rapidly destroy them and render the sieve worthless.

As shown in the accompanying drawing, the strips and blocks have wedge-shaped transverse sections, the bases *b* of the strips being presented to the vertices *c* of the separating blocks.

I am aware that strips having wedge-shaped transverse sections have been used in the manufacture of gas-trays or sieves for purifiers for a number of years. I therefore wish it distinctly understood that I do not confine myself to strips and wedges of a given transverse section, but will use either square, round, or any other suitable form.

I claim as my invention—

The strips A and blocks B, of any transverse section, in combination with the riveted binding-rods C and the washer D, substantially as and for the purpose shown and described.

In testimony whereof, I hereunto sign my name to this specification in presence of two subscribing witnesses.

PETER MUNZINGER.

Witnesses:

FRANCIS D. PASTORIUS,  
JOHN YILLE.