(No Model.)

R. VAN R. SILL.

ELECTRIC HEATER.

No. 565,574. Patented Aug. 11, 1896.

Fig. 1.

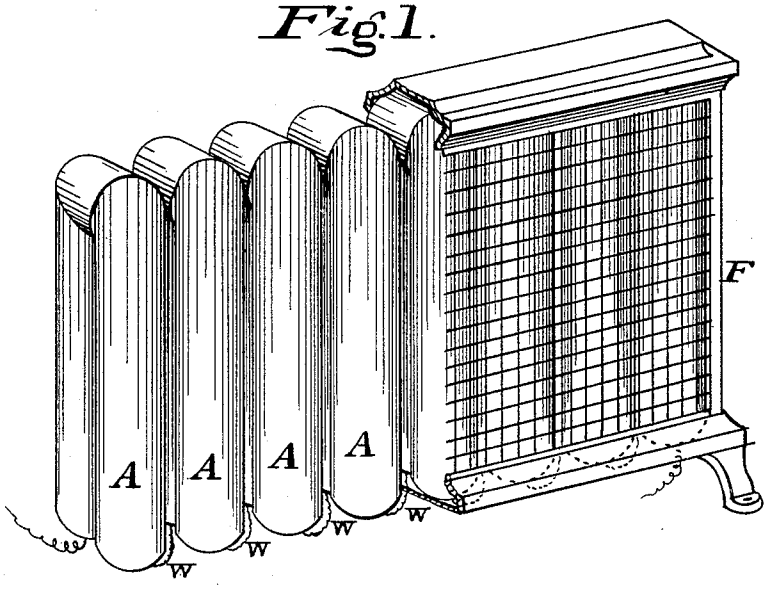
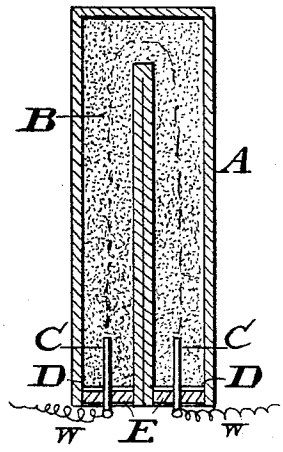


Fig. 2.



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UNITED STATES PATENT OFFICE.

RICHARD VAN R. SILL, OF CLEVELAND, OHIO, ASSIGNOR TO THE DORNER & DUTTON MANUFACTURING COMPANY, OF SAME PLACE.

ELECTRIC HEATER.

SPECIFICATION forming part of Letters Patent No. 565,574, dated August 11, 1896.

Application filed March 20, 1896. Serial No. 584,197. (No model.)

To all whom it may concern:

Be it known that I, RICHARD VAN R. SILL, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Electric Heaters, of which the following is a specification.

This invention relates to electric heaters; and it consists of the new construction and combination of elements for the purpose of generating and radiating heat, substantially as hereinafter described, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a perspective view of a heater embodying my invention, showing a portion of the outer casing broken away. Fig. 2 is a vertical section of one of the heating-pipes, showing the construction and arrangement of same.

A A are vertical tubes or chambers composed of clay or other suitable non-conducting material made in pairs by being bent or otherwise joined at their upper ends.

B is a resistance-filling composed of comminuted carbon contained in said tubes.

C C are electrodes fixed in the lower ends of said tubes or chambers, extending up into the said filling. They are held in place by means of disks of lead and are hermetically sealed with plaster-of-paris or other suitable material to exclude air.

The special advantages of this construction are that the upright tubes or chambers, having the electrodes in their lower ends, will always retain the contact of the electrodes with the filling by gravity, as the jarring of the heater would cause the filling to press upon the electrodes and thereby preserve their contact, and also being hermetically sealed, air is excluded and the liability of arcing and burning is avoided.

Having described my invention, I claim—

The combination of a hermetically-sealed radiator having vertical chambers communicating with each other at their upper ends, a comminuted resistance filling said radiator, and an electrode extending into the lower end of each chamber, and having contact with the resistance material, substantially as described.

RICHARD VAN R. SILL.

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