

L. FAIRCHILD.  
Wash-Boilers.

No. 156,844.

Patented Nov. 17, 1874.

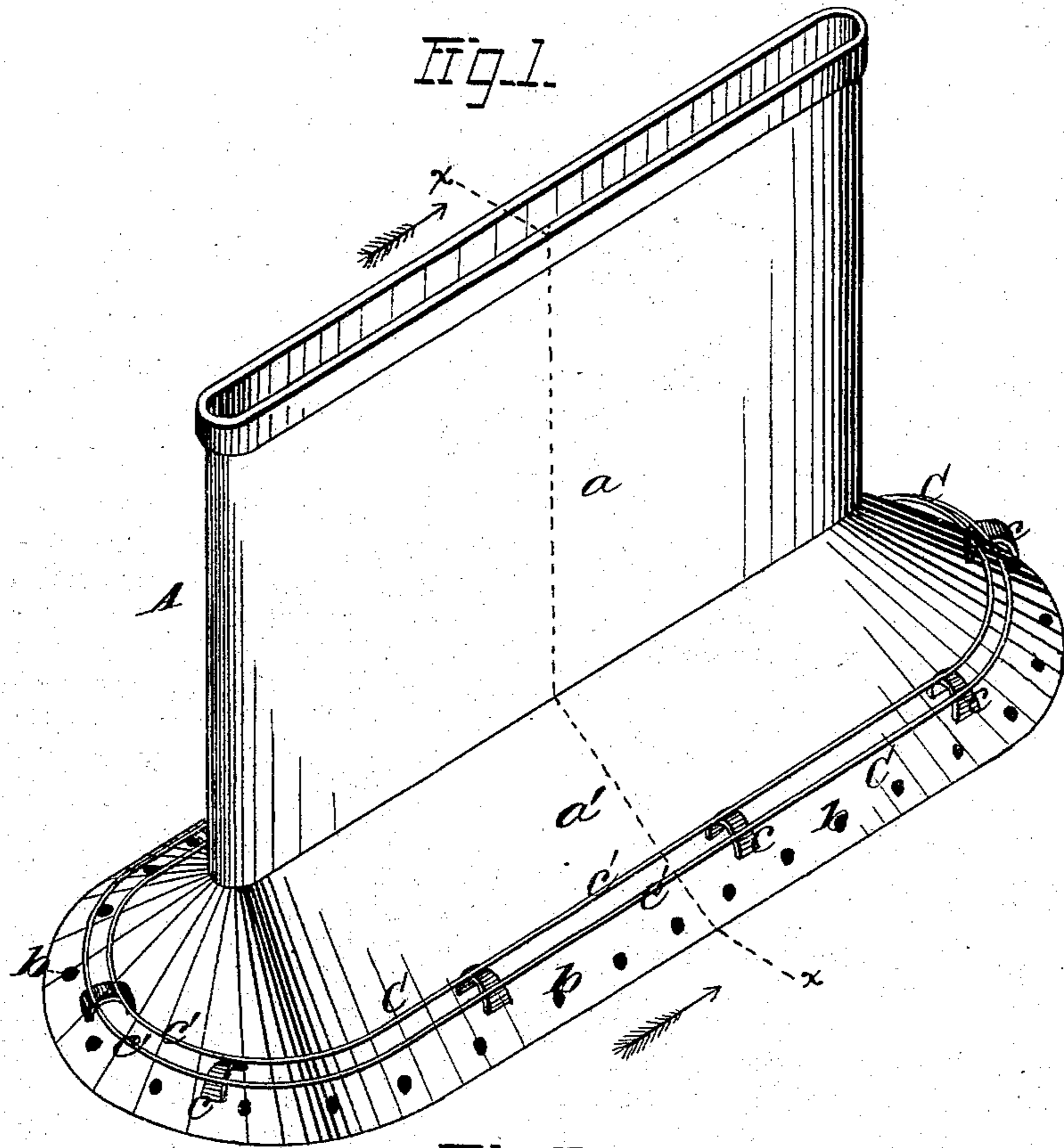
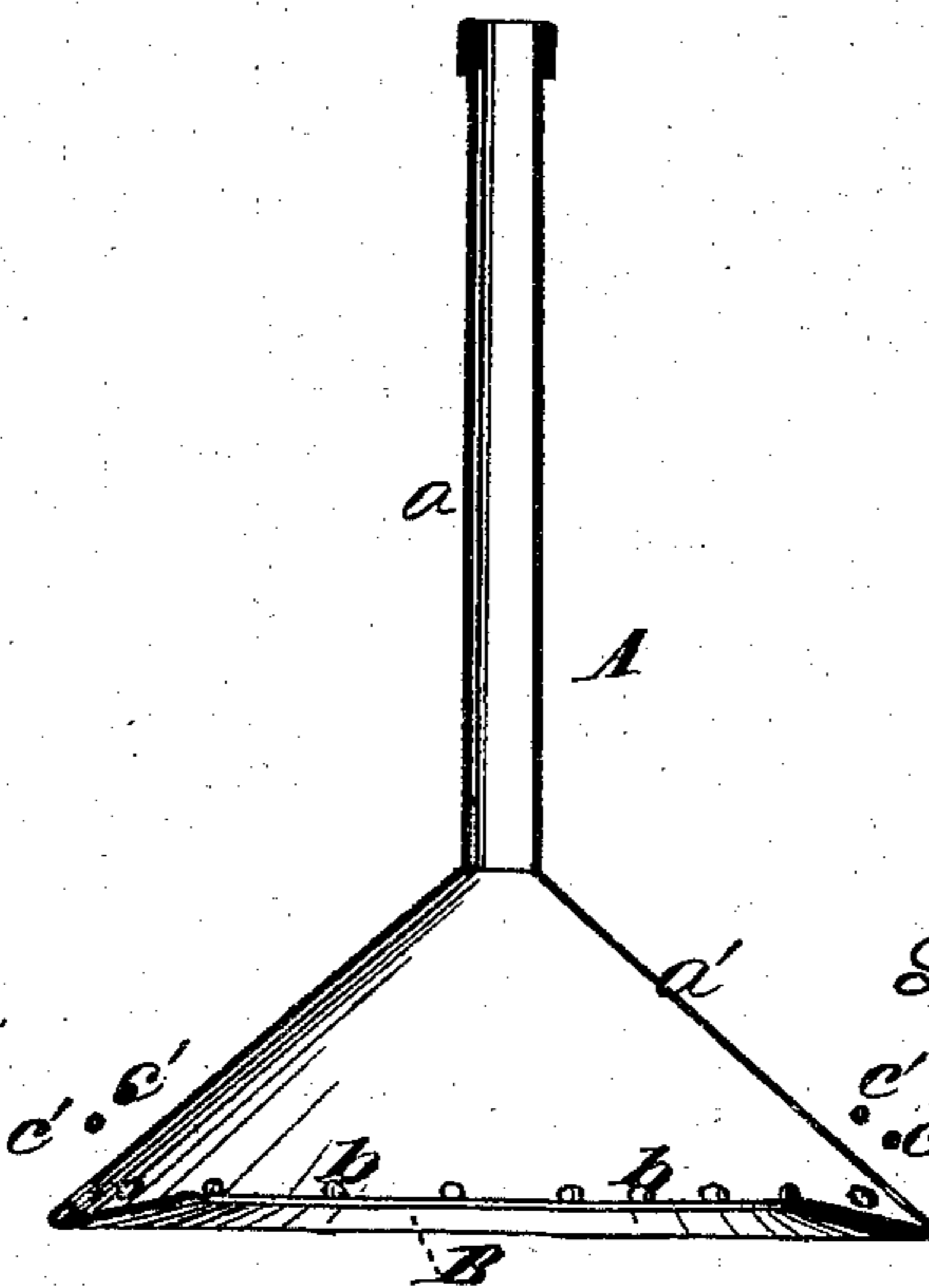


Fig. 2.



WITNESSES:

Asst. Hutchinson  
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INVENTOR.

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# UNITED STATES PATENT OFFICE.

LINUS FAIRCHILD, OF ROME, IOWA.

## IMPROVEMENT IN WASH-BOILERS.

Specification forming part of Letters Patent No. **156,844**, dated November 17, 1874; application filed September 8, 1874.

*To all whom it may concern:*

Be it known that I, LINUS FAIRCHILD, of Rome, in the county of Henry and State of Iowa, have invented a certain new and useful Improvement in Wash-Boilers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, in which—

Figure 1 is a perspective view; and Fig. 2, a vertical section of my improvement, styled a conductor, through the dotted line *x x* of the first-named figure.

Corresponding parts in the two figures are designated by like letters.

This invention relates to certain improvements in wash-boilers, for producing a complete revolution of the water in ebullition in the boiler; and it consists of a conductor with a tube and perforated conical base, having an inner upwardly-inclined flange or plate around its lower edge, and in line with and below its perforations, substantially as hereinafter more fully set forth.

In the annexed drawing, A refers to a conductor for use in wash-boilers, with a flat tube, *a*, and conical base *a'*, provided at its outer edge with the perforations or holes *b b*, and around its lower edge, in a line with and below the said perforations, with an inner upwardly-inclined flange or plate, B, as shown in Fig. 2. The object of this flange or plate is to deflect the boiling water in its upward passage to such an extent as to prevent its passing through the perforations or holes *b b*, and thus direct and cause it to ascend by way of the tube *a*, and allow it, in its descent, to enter and pass back into the conductor through

the said perforations, by which it will be seen that a complete or uninterrupted revolution of the water in ebullition will be maintained, expediting the process of cleansing the clothes. C C is a guard or protector for the perforations or holes *b b*, to prevent the clothes inserted in the boiler and resting against the conductor from intercepting the passage of the water in ebullition through them. It consists of plates or arches *c c*, fastened upon the conical base *a'* of the conductor at suitable distances apart, and in line with the perforations or holes *b b*, and of wires or strips *c' c'*, fastened upon the said plates or arches *c c* in any known way, forming a skeleton support for the clothes, by which as little obstruction or hinderance is offered to the passage of the water in ebullition as possible, and the exposure of a greater amount of the surface of the clothes to the action of the agitated water is secured.

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

The conductor A, with its perforated conical base and inner upwardly-inclined flange or plate B, arranged with reference to the perforations substantially as shown and described, and for the purpose specified.

In witness that I claim the foregoing I have hereunto set my hand this 4th day of September, 1874.

LINUS FAIRCHILD.

Witnesses:

WM. SCOTT,  
ALICE SCOTT,  
SILAS GURK.