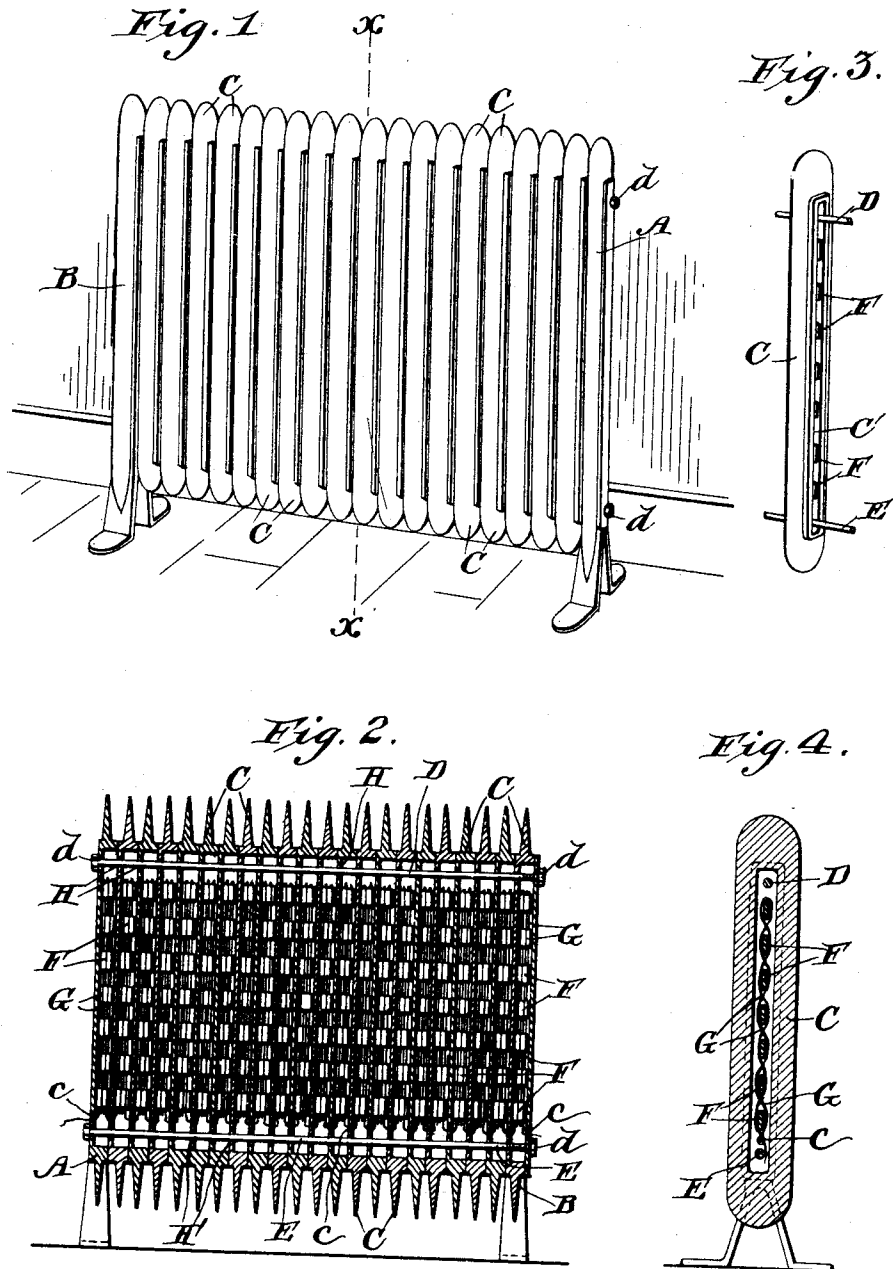


(No Model.)

S. B. JENKINS.
ELECTRIC RADIATOR.

No. 516,095.

Patented Mar. 6, 1894.



Witnesses

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UNITED STATES PATENT OFFICE.

SAMUEL B. JENKINS, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE
AMERICAN ELECTRIC HEATING COMPANY, OF SAME PLACE.

ELECTRIC RADIATOR.

SPECIFICATION forming part of Letters Patent No. 516,095, dated March 6, 1894.

Application filed March 29, 1893. Serial No. 468,175. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL B. JENKINS, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Electric Radiators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to electric radiators of the kind in which a conductor, forming part of an electric circuit is wound on internal studs or cores or an interrupted flange of the radiator casing.

The chief object of this improvement is to provide convenient means for the regulation of the heat producing power, by constructing the radiator in convertible sections, each complete in itself, which may be multiplied or diminished in number and which are provided with openings for the passage of the conductor from one section to another as well as additional openings for the passage of fastening rods.

The invention consists in the construction and combination of parts hereinafter set forth and claimed.

In the accompanying drawings Figure 1 represents a perspective view of a radiator embodying my invention. Fig. 2 represents a vertical longitudinal section of the same. Fig. 3 represents a perspective view of one section detached. Fig. 4 represents a vertical section from front to rear through the center of one of the sections on the line $x-x$ of Fig. 1.

A and B designate respectively the two end standards of the radiator. C designates the several heating sections arranged upright side by side between them. D E designate two rods which are extended through the said standards and sections, and d designates the nuts which are turned on the screw-threaded ends of the said rods outside of the said standards to fasten the said sections all together.

Each heating section C is provided on one of its inner faces with an interrupted flange forming a row of cores F and has a large

opening C' in the opposite side to permit access to them for winding. Below the said cores there is a hole c in their side of the casing, for the passage of the heating wire or conductor G from section to section through the radiator, after being wound or woven on the said cores in any one of the many ways now well known. Holes H H' in the same side of each section respectively at top and bottom permit the aforesaid rods to pass through. Of course any number of the said sections may thus be employed the solid side of each section covering securely the opening C' of the other. Any number of them may be withdrawn, or additional ones may be introduced into the radiator thus extending or contracting it and correspondingly affecting its heating power. In making these changes it is of course necessary to withdraw the fastening rods D E and insert shorter or longer ones, the only difference being in their length. No other change in the radiator is necessary.

The wire or conductor G is of course in electrical circuit with the usual heating effect. The material of the sections C is preferably of cast iron and if the cores F are suitably wound the heat produced will be greater on account of magnetic induction. Of course the wire may be wound or woven on them, for magnetism or not, as preferred. It may also be insulated in any suitable way; some insulation of course being necessary. Instead of one wire or conductor two or more may of course be employed.

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

1. In an electric radiator, a series of removable sections each provided with an interrupted flange or row of cores, in combination with electric heating devices applied to the said cores and fastening and supporting devices for the said sections substantially as set forth.

2. In an electric radiator, a series of removable sections; each having a series of cores an opening to allow access to them for winding, in combination with an electric conductor passing from core to core throughout the series of sections and wound or woven

for heating effect, and supporting and fastening devices substantially as set forth.

3. In combination with a pair of supporting standards and detachable fastening rods
5 passed through the same, a series of removable sections of casing perforated for the passage of the said rods and provided with interrupted flanges or cores and a heating conductor which is wound or woven on the said

cores or flanges for heating purposes substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL B. JENKINS.

Witnesses:

SELDON D. BARTLETT,
PELATIAH R. TRIPP.