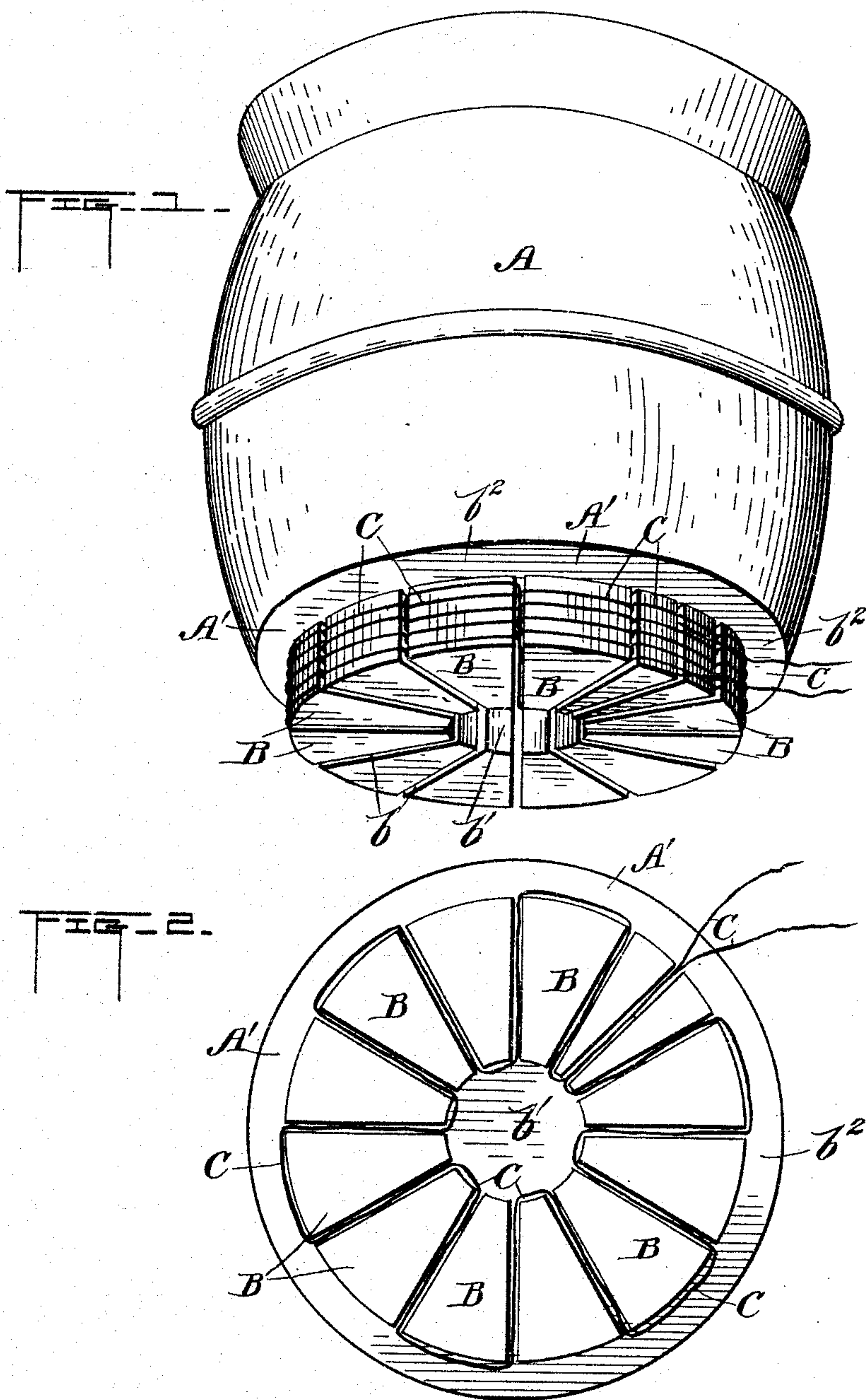


(No Model.)

S. B. JENKINS.
ELECTRICALLY HEATED VESSEL.

No. 491,484.

Patented Feb. 7, 1893.



Witnesses
 Cleverance.
 W. Harvey Muzzey.

Inventor
Samuel B Jenkins
by
W. H. Babcock
Attorney

UNITED STATES PATENT OFFICE.

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

ELECTRICALLY-HEATED VESSEL.

SPECIFICATION forming part of Letters Patent No. 491,484, dated February 7, 1893.

Application filed June 9, 1892. Serial No. 436,044. (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 Electrically-Heated Vessels; 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 electrically heated vessels having their bottoms provided with electrical heating devices; and it consists in the combination of such a vessel having sector-shaped blocks or their equivalents formed on its bottom with an electrical conductor woven from block to block instead of being wound in helices.

In the accompanying drawings, Figure 1 represents a perspective view, taken partly from below, of a vessel embodying my invention, and Fig. 2 represents a plan view thereof, only the first winding of the wire being shown.

A designates the body of the vessel, which, as shown is cylindrical and of moderate height, but may be varied in either respect. On the bottom A' of this vessel sector shaped blocks B are formed integral therewith and divided by narrow intervals or channels *b*. The said blocks do not extend quite to the center of the said bottom but leave there a circular open space *b'*. There is also a peripheral annular open space *b*² outside of the circular series of these blocks. An insulated wire C, forming part of an electric circuit is wound from block to block being woven through these passages or intervals *b* without forming

a complete coil or helix about any one of them. This weaving may be accomplished in many ways but the one shown will answer very well; only a single wire being used and that wound from each block to the one next in order around and around the series until there is a complete network or system including a great length of heating wire, all of which will be firmly held in place between the blocks, and every part of which will have immediate contact with some part of the heat conducting material of the vessel. The shape and arrangement of the blocks B may of course be varied and a different kind of electrical conductor may be substituted for the wire described; but the construction as shown is the most efficacious for the purpose.

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

1. An electrically heated vessel having blocks formed on its bottom, in combination with an electrical conductor woven from block to block substantially as set forth.

2. A vessel having a circular series of sectoral blocks B formed on its bottom, having intervals or passages *b* between them, in combination with an electrical conductor woven from block to block through the said intervals, inclosing the whole series of blocks and having every part of the said conductor in contact with at least one of them substantially as set forth.

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

SAMUEL B. JENKINS.

Witnesses:

ARTHUR B. SMITH,
PELATIAH R. TRIPP.