

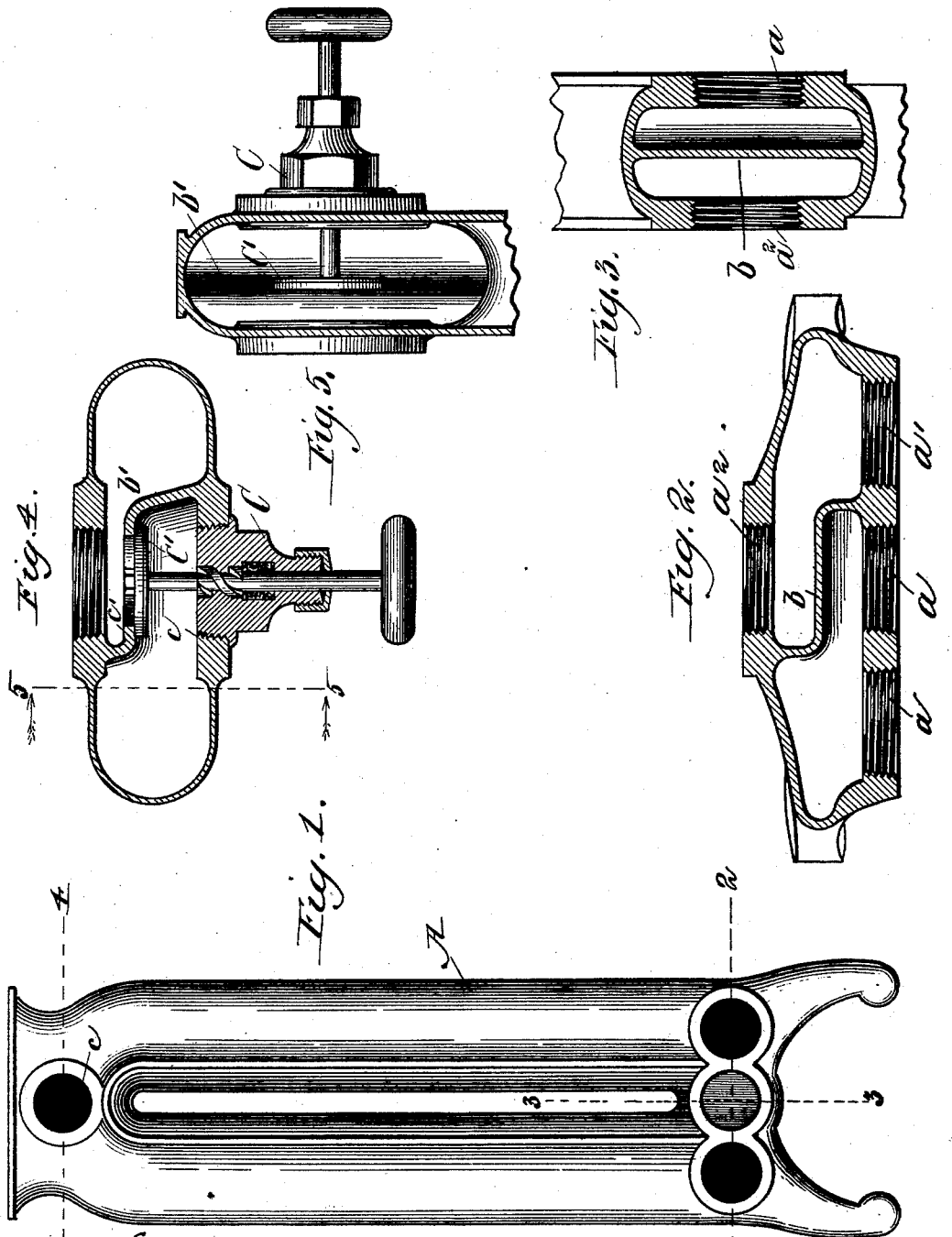
(No Model.)

2 Sheets—Sheet 1.

L. H. PRENTICE & G. MEHRING.
RADIATOR.

No. 524,733.

Patented Aug. 21, 1894.



Witnesses
Charles C. Donnell
Simon Kraus

Inventors
Leon H. Prentice &
George Mehring
By J. M. Whipple
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(No Model.)

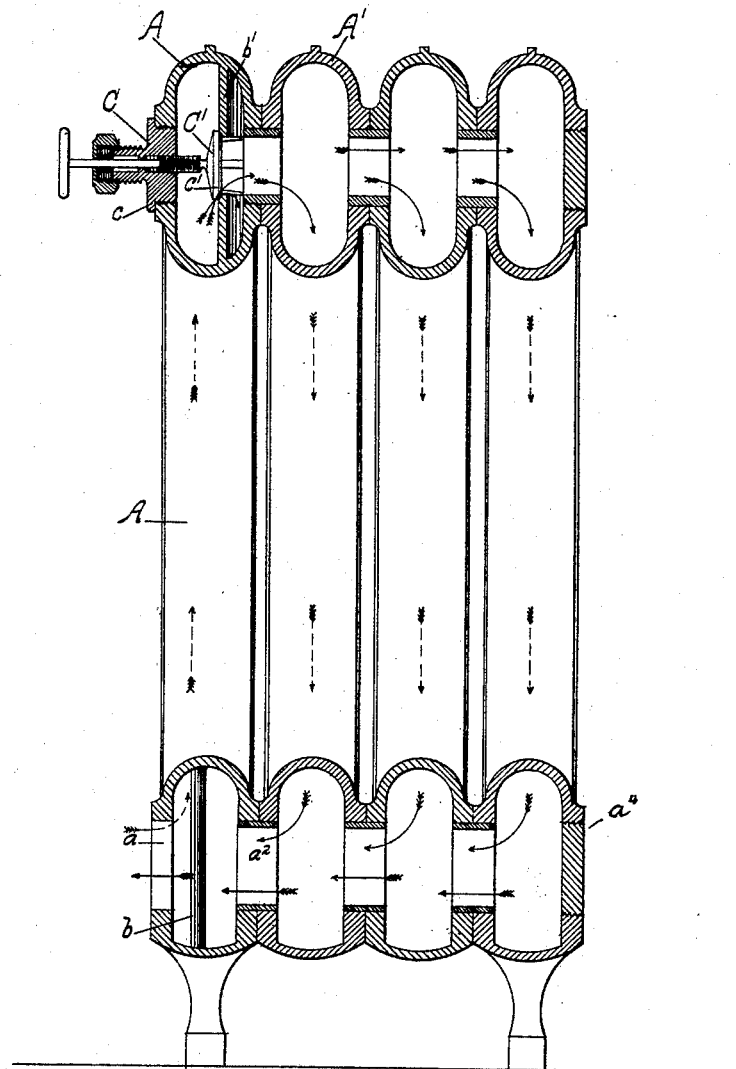
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Fig. 6.



Witnesses.

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UNITED STATES PATENT OFFICE.

LEON H. PRENTICE, OF WAUKEGAN, AND GEORGE MEHRING, OF CHICAGO,
ILLINOIS.

RADIATOR.

SPECIFICATION forming part of Letters Patent No. 524,733, dated August 21, 1894.

Application filed August 13, 1892. Serial No. 442,958. (No model.)

To all whom it may concern:

Be it known that we, LEON H. PRENTICE, of Waukegan, in the county of Lake, and GEORGE MEHRING, of Chicago, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Radiators, of which the following is a specification.

Our invention relates to radiators composed of a series of vertical sections adapted to be joined together to form a radiator of any desired length; and the object of our improvement is to incorporate in such a radiator the means for regulating the circulation so that a supply or feed pipe without any valve or shut-off can be connected directly with the radiator in the ordinary way. We attain this object by providing an end section for such radiators with two chambers, placing a port with a valve in a partition between the chambers, connecting the feed pipe with one of the chambers and connecting the other sections of the radiator and the return pipe in communication with the other chamber.

The accompanying drawings illustrate the invention.

Figure 1 is an end elevation of a radiator of the class mentioned, and shows an end section containing our invention. Fig. 2 is an enlarged horizontal section on the line 2—2 of Fig. 1. Fig. 3 is an enlarged vertical section through a fragment taken on the line 3—3 of Fig. 1 looking toward the right. Fig. 4 is an enlarged horizontal section on the line 4—4 of Fig. 1. Fig. 5 is a vertical section on the line 5—5 of Fig. 4 looking toward the right. Fig. 6 is a longitudinal vertical section of a hot water radiator comprising several sections in conjunction with the end section shown in Fig. 1.

In the drawings, A designates an end section which contains our invention. This is a reverted tube having its ends joined so as to form a continuous duct. It is provided with three threaded openings *a a* and *a'* at the bottom for receiving the feed pipe and the return pipe. We provide said three openings in order to give said section an ornamental appearance and to adapt it to have the feed pipe and the return pipe both applied at the

same end of the radiator, or to have the feed pipe only so applied. If the feed pipe and the return pipe are to be applied at the same end of the radiator, the outer one of the two openings *a a* should be used for the feed pipe, the central one being plugged with an ornamental plug, and the opening *a'* used for the return pipe; but, in case the feed pipe is located at one end of the radiator and the return pipe at the other, then the central opening *a* should be used for the feed pipe and the outer openings *a* and *a'* both stopped with an ornamental plug, the return pipe being attached in such case at the corresponding plugged opening *a'* on the outside of the final section. A threaded opening *a²* is placed on the opposite side of said section A at the bottom by means of which the nipple of the adjacent section A' is connected with said section A as shown in Fig. 6. The continuous duct of the section A is traversed by a partition *b* at the bottom and by a partition *b'* at the top which divides it into two distinct chambers. The wall of the section opposite to the partition *b'* is provided with a threaded opening *c* adapted to receive the socket C of a valve C', and the partition *b'* has a port *c'* controlled by said valve. The openings *a a* communicate with one of the chambers of section A between the partitions *b b'* and the openings *a'* and *a²* communicate with the other of these chambers between the opposite sides of said partitions so that as steam enters the first named of said chambers it may be confined therein or be permitted to pass through the port *c'* to the other of said chambers and thence through the radiator to the return pipe as the valve C' is closed or opened. The end section A is of uniform construction with the other sections of the radiator and the valve is located near the top in order to bring it within easy reach without stooping.

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

An end section for radiators comprising substantially a reverted tube having its opposite ends connected so as to form a continuous duct, two partitions located at different

points in said duct and dividing the same
into two distinct chambers, one of said parti-
tions being provided with a port, a valve hav-
ing a handle projecting out through an open-
5 ing in the wall of the tube for opening and
closing said port, means for connecting the
feed pipe in direct communication with one
of said chambers and means for connecting

the return pipe in communication with the
other of said chambers as specified.

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