

T. WARHURST.
WATER-PIPES, &c.

No. 183,348.

Patented Oct. 17, 1876.

Fig. 1.

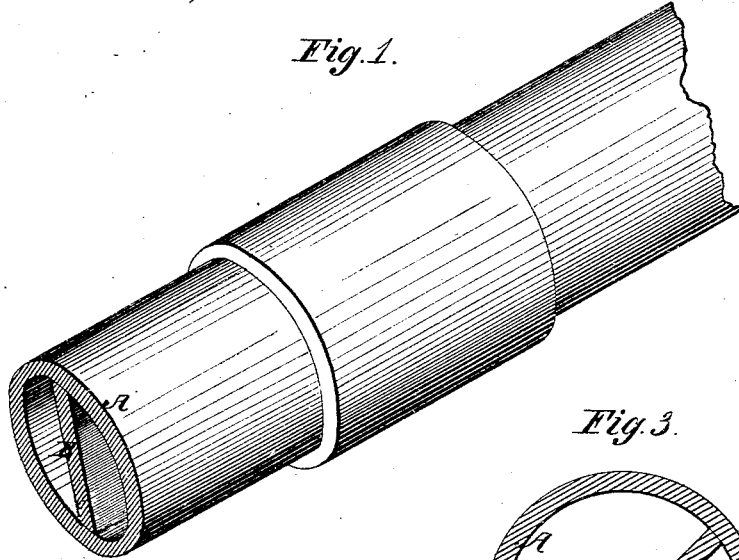


Fig. 2.

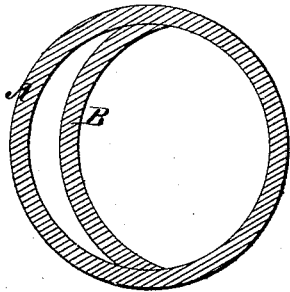


Fig. 3.

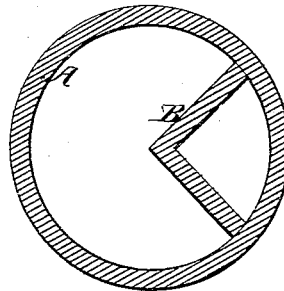
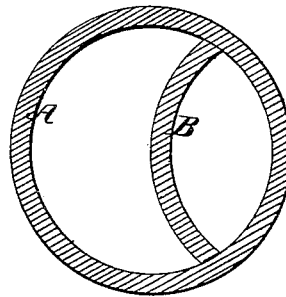


Fig. 4.



Witnesses.

Henry D. Barr
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Inventor.

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UNITED STATES PATENT OFFICE.

THOMAS WARHURST, OF WAPPINGER'S FALLS, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO HENRY D. BARR, OF WASHINGTON, D. C.

IMPROVEMENT IN WATER-PIPES, &c.

Specification forming part of Letters Patent No. **183,348**, dated October 17, 1876; application filed March 7, 1876.

To all whom it may concern:

Be it known that I, THOMAS WARHURST, of Wappinger's Falls, in the county of Dutchess and State of New York, have invented a new and Improved Pipe for Conveying Water, &c.; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to construct and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a perspective view. Figs. 2, 3, and 4 are sectional views, showing modified arrangements of my invention.

The object of my invention is to prevent water from freezing in pipes, or to relieve the same when frozen up.

My invention consists in constructing the pipe with an internal continuous partition, thereby forming a chamber into which a heating medium may be introduced.

In the drawings, A is the pipe, and B is the partition. In Fig. 1 the partition is arranged centrally, and a half-section of the pipe is thereby utilized to convey the water.

Figs. 2, 3, and 4 illustrate various modes of arranging the partition, in order to give great-

er capacity to the service-section in a given diameter of pipe.

It will be readily understood by pipe-founders that these pipes can be cast by employing separate cores for the separated sections of the several forms shown, and it is obvious that they can be produced as cheaply as an ordinary pipe, aside from the cost of the extra quantity of metal required to produce the partition.

I do not confine myself to the use of any particular heating agent, as steam, hot air, or any other known agent may be used.

I am aware that it is not new to inclose a service-pipe wholly within another pipe of larger diameter, and to introduce a heating medium within the intermediate space, and this I do not claim; but,

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

A pipe for conveying water or other liquids, cast with an internal partition, forming a chamber into which to introduce a heating medium, for the purpose specified.

Witnesses: THOS. WARHURST.

J. D. BETHUNE,
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