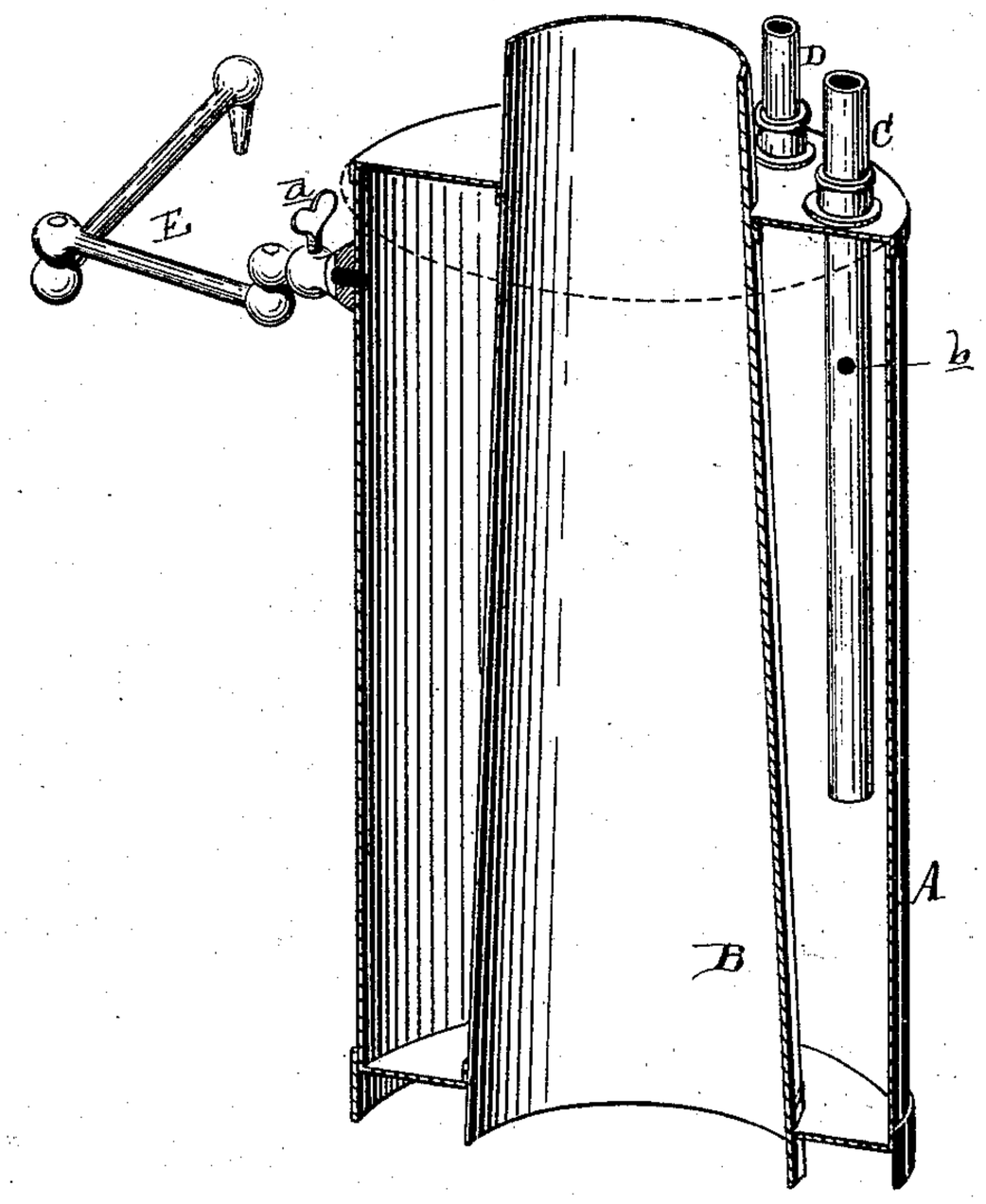
D. E. RICE.

Hot-Water Reservoir.

No. 223,951. Patented Jan. 27, 1880.



Attest:

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UNITED STATES PATENT OFFICE.

DELOS E. RICE, OF DETROIT, MICHIGAN.

HOT-WATER RESERVOIR.

SPECIFICATION forming part of Letters Patent No. 223,951, dated January 27, 1880.

Application filed July 7, 1879.

To all whom it may concern:

Be it known that I, DELOS E. RICE, of Detroit, in the county of Wayne and State of Michigan, have invented an Improvement in Hot-Water Reservoirs, of which the following is a specification.

The nature of this invention relates to certain new and useful improvements in the construction of reservoirs in which water is heated for culinary and other purposes; and the invention consists in the peculiar construction and arrangement of the various parts, all as more fully hereinafter set forth.

In the accompanying drawing, which is in sectional perspective, and which forms a part of this specification, A represents a reservoir or tank formed around a thimble or pipe, B. C is an inlet-pipe, which is connected to the cold-water supply; and D, an outlet-pipe, through which hot water is conveyed to the desired points. E is a jointed pipe, provided with a stop-cock, *a*, and is secured to the reservoir, as shown. In the pipe C, I make an opening, *b*, for the purpose hereinafter described.

I represent my improved reservoir as constructed around a thimble or pipe, B. This pipe is intended to supply the place of the first joint of stove-pipe at the stove, so that the water contained in the reservoir shall be heated by the products of combustion in their passage through the said pipe to the chimney.

By means of the jointed pipe E water may be drawn from the reservoir into a vessel upon any part of the stove.

In cold weather, when it is not desired to keep up a continuous fire in the stove, to prevent the water in the pipes throughout the house freezing, I shut off the cold-water supply below ground. I then draw out of the reservoir all the water to a level with the opening *b* in the pipe C through the pipe E. This also empties all the connecting-pipes above such opening, thus preventing their freezing, and should the water remaining in the reservoir freeze no damage is done.

I do not desire to confine myself to the construction of the reservoir around a pipe, as shown and described, as my improvements are applicable to all circulating water-reservoirs as well.

What I claim as my invention is—

1. A hot-water reservoir provided with a jointed pipe, E, substantially as described, for the purposes specified.

2. The hot-water reservoir described, consisting of tank A, placed around stove-pipe B, and having supply-pipe C, with hole *b*, outlet-pipe D, and jointed pipe E, all constructed and arranged substantially as set forth and shown.

DELOS E. RICE.

Witnesses:
H. S. SPRAGUE,
CHARLES J. HUNT.