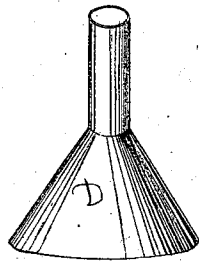


J. KENFIELD, Jr.

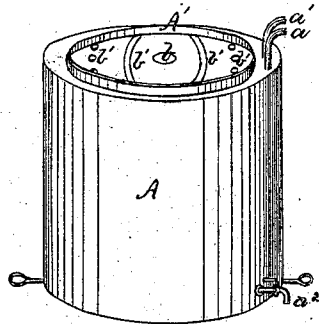
Water-Heaters.

No. 135,921.

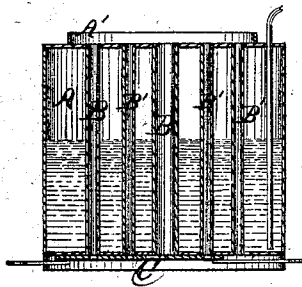
Patented Feb. 18, 1873.



*Fig 1*



*Fig 2*



*Fig 3*

Witnesses  
W. Bradford  
J. Edw. J. Eils

J. Kenfield Jr.  
Inventor  
D. P. Holloway & Co  
Attys

# UNITED STATES PATENT OFFICE.

JOHN KENFIELD, JR., OF ELMIRA, NEW YORK.

## IMPROVEMENT IN WATER-HEATERS.

Specification forming part of Letters Patent No. 135,921, dated February 18, 1873.

*To all whom it may concern:*

Be it known that I, JOHN KENFIELD, JR., residing at Elmira, in the county of Chemung and State of New York, have invented a certain Improvement in Water-Heaters, of which the following is a specification:

The nature of my invention consists in providing a water-heater capable of use upon ordinary cooking stoves and ranges, and constructed with a series of vertical flues, controlled by a suitable damper, to regulate the extent of surface exposed to the hot air passing up into the smoke-pipe or chimney.

Figure 1 is a perspective view of my improved water-heater, the cap or hood being shown as suspended above it. Fig. 2 is a vertical section, the cap being removed. Fig. 3 is a plan view of the damper.

The same letters of reference are used in all the figures in the designation of identical parts.

The heater A, illustrated in the annexed drawing, is elliptical in form in horizontal section, and may be made of any required height. The water is introduced into it through the pipe *a*, and delivered to different parts of a house through the pipe *a*<sup>1</sup>. It is also provided with a cock, *a*<sup>2</sup>, for drawing water from it directly. The heads of the heater are provided with a number of openings, *b*<sup>1</sup>, upon each side of the central opening *b*, such openings being connected by flues B and B', respectively. The

openings in the lower head are controlled by a damper, C, so constructed and arranged that when it shuts off all the flues B' the central flue B will be wide open, and also remain partially open when the flues B' are opened. The shell of the heater projects below the lower head, forming a rim, with which the heater rests upon the top of the stove or range, leaving sufficient space between the latter and the bottom of the heater for the accommodation of the damper C. An annular rim, A', is also formed upon the top of the heater around its flues to receive the cap or hood D, which conducts the waste heat to the smoke-pipe or chimney.

I prefer to make the central and outside flues cylindrical in form, and the intermediate ones of the flat and curved form shown in Fig. 1.

What I claim as my invention, and desire to secure by Letters Patent, is—

A water-heater containing flues B and B', in combination with the damper C and hood D, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN KENFIELD, JR.

Witnesses:

N. P. FASSETT,  
JOHN E. STEWELL.