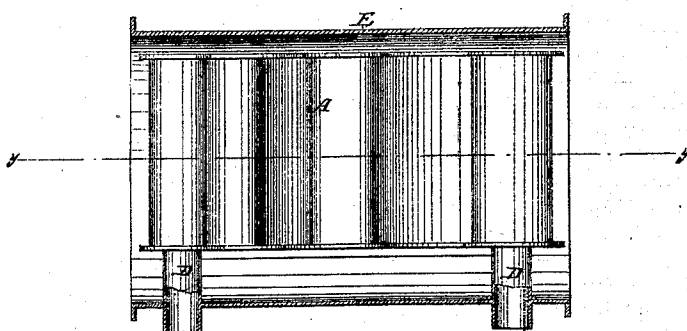


Improvement in Feed Water Heaters.

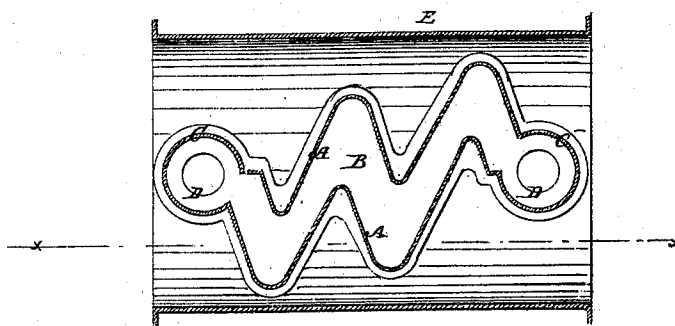
No. 122,204.

Patented Dec. 26, 1871.

*Fig. 1.*



*Fig. 2.*



Witnesses:

*Chas. Nida*  
*Francis McAulay*

Inventor:

*W. E. Walsh*  
PER *Wm. L. Munniff*  
Attorneys.

## UNITED STATES PATENT OFFICE.

WILLIAM E. WALSH, OF JERSEY CITY, NEW JERSEY.

## IMPROVEMENT IN FEED-WATER HEATERS.

Specification forming part of Letters Patent No. 122,204, dated December 26, 1871.

Specification describing certain Improvements in Heater for Feed-Water, &c., invented by WILLIAM E. WALSH, of Jersey City, in the county of Hudson and State of New Jersey.

My invention relates to a feed-water for boilers, and will be first fully described and then clearly pointed out in the claim. The arrangement is such that the said holder may be constructed very cheaply by casting; but it may be constructed of sheet metal, if preferred.

Figure 1 is a longitudinal sectional elevation of my improved heater taken on the line *x x* of Fig. 2. Fig. 2 is a horizontal section taken on the line *y y*, Fig. 1.

A represents the two wide corrugated or zigzag-shaped sides of the holder; B, the narrow sides; C, the ends; and D, the pipe-connection. These parts comprise a holder for water to be heated for supplying boilers.

I have devised this form of holder with special reference to the facility with which it can be molded and cast, so as to enable me to provide a cheaper heater with large heating-surface in a small compass than can be made of wrought metal or of tubes; but it may be made of rolled sheet metal.

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

The metallic feed-water heater, having two zigzag sides, A, narrow sides B, and ends C, constructed as described.

The above specification of my invention signed by me this 19th day of October, 1871.

WILLIAM E. WALSH.

Witnesses:

GEO. W. MABEE,  
T. B. MOSHER.

(148)