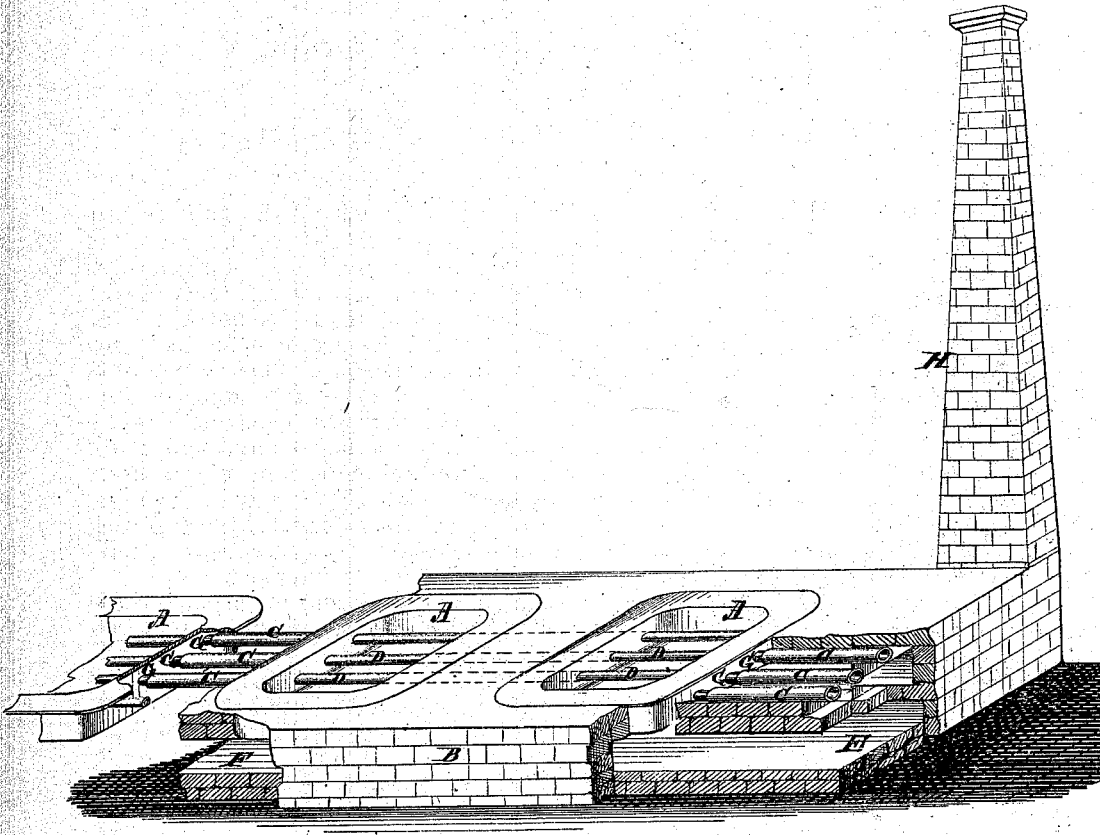


ISAM VEST.

Improvement in Apparatus for Boiling Sugar, &c.

No. 115,395.

Patented May 30, 1871.



Witnesses:

*John Becker.*  
*L. S. Meabe*

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## UNITED STATES PATENT OFFICE.

ISAM VEST, OF NEW IBERIA, LOUISIANA.

## IMPROVEMENT IN APPARATUS FOR BOILING SUGAR, &amp;c.

Specification forming part of Letters Patent No. 115,395, dated May 30, 1871.

*To all whom it may concern:*

Be it known that I, ISAM VEST, of New Iberia, in the parish of Iberia and State of Louisiana, have invented a new and useful Improvement in Boiling Sugar; 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 make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to a new and useful improvement in boiling sugar, whereby the operation is greatly facilitated and fuel economized; and consists in adjustable flues, by means of which the gaseous products of combustion are returned through the pans surrounded by the juice, as will be hereinafter more fully described.

The accompanying drawing represents a view of my improvement in perspective.

Similar letters of reference indicate corresponding parts.

A represents the sugar-pans; B, the brick-work or furnace in which the pans are set; C represents the adjustable flues between the pans; and D, the stationary flues in each of the pans. E is the fire-box, and F the flue be-

neath the pans. Each of the pans is provided with one or more flues, D, which, of course, are secured by tight joints through the walls of the pan, with the ends of the flue or flues projecting, as seen at G in the drawing. These flues are so made that they connect with the stationary flues so as to conduct the smoke and gaseous products of combustion back through the pans and fluid to the chimney H. By this arrangement it will be seen that two or more pans may be used, and pans may be added as may be required. This method results in a great saving of fuel, as well as of time, and a consequent diminution of the expense of boiling sugar.

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

The adjustable flues C, whereby a series of pans may be connected together, and the gaseous products of combustion be returned through the pans and fluid, substantially as shown and described.

ISAM VEST.

Witnesses:

W. A. RIGGS, Jr.,  
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