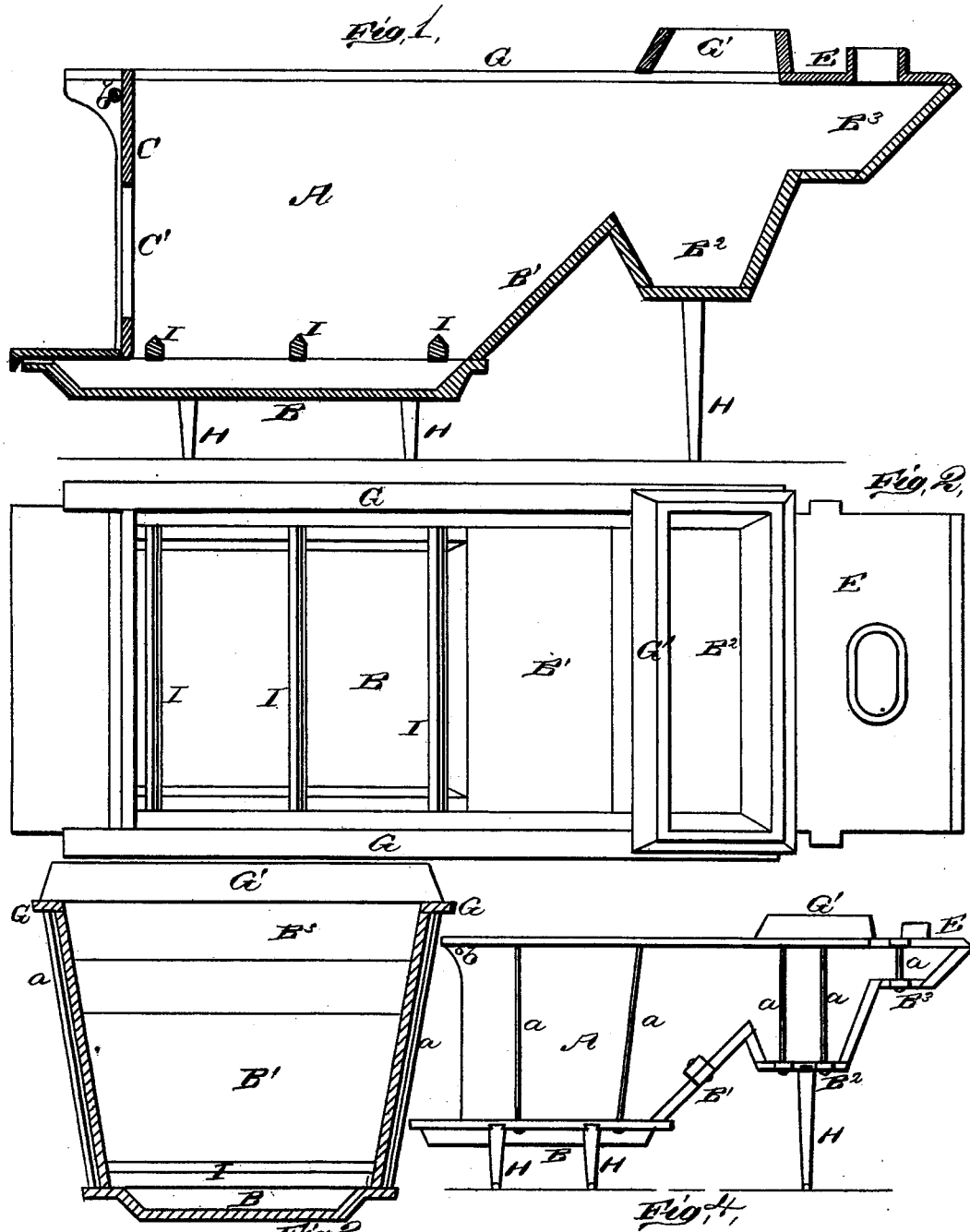


O. B. HUGGINS.  
Pan for Boiling Sap.

No. 197,373.

Patented Nov. 20, 1877.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

OLIVER B. HUGGINS, OF PITTSBURG, NEW HAMPSHIRE.

## IMPROVEMENT IN PANS FOR BOILING SAP.

Specification forming part of Letters Patent No. **197,373**, dated November 20, 1877; application filed October 6, 1877.

*To all whom it may concern:*

Be it known that I, OLIVER B. HUGGINS, of Pittsburg, in the county of Coos and State of New Hampshire, have invented a new and valuable Improvement in Pans for Boiling Sap; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal vertical section of my pan for boiling sap; Fig. 2, a plan view; Fig. 3, a transverse vertical sectional view; and Fig. 4, a side view thereof.

The nature of my invention consists in the construction and arrangement of an arch or furnace upon which the heater and pan are placed for boiling sap, as will be hereinafter more fully set forth.

The annexed drawings, to which reference is made, fully illustrate my invention.

The sides A A of my arch or furnace are substantially in the form shown in the drawing, the top and bottom edges being parallel for a certain distance from the front end backward, and then formed as hereinafter described.

Under the front part of the arch is the bottom B, which is hollowed out to form an ash-pit, and extends beyond the front end to form the hearth.

C is the front of the arch or furnace, with entrance C'.

From the rear end of the bottom B extends an upwardly-inclined bridge-wall, B<sup>1</sup>, in rear of which is a depressed chamber, B<sup>2</sup>, the rear side of said chamber extending still farther upward; and near the top, at the rear ends of the sides, is then formed a chamber, B<sup>3</sup>, cov-

ered by a plate, E, in which is a hole or collar for the attachment of a stove-pipe.

Along the top edges of the sides A A are laid bars G G, which are, by rods or bolts *a a*, connected with the bottom B, bridge-wall B<sup>1</sup>, and the various plates forming the chambers B<sup>2</sup> and B<sup>3</sup>, thus uniting the parts together. The front C is held in a similar manner by one or more bolts *b*, between the front ends of the side pieces A. On top of this arch, immediately in front of the plate E, is fastened a frame, G', on top of which the heater is to be placed, which heater is thus above the chamber B<sup>2</sup>, while on the remaining portion of the arch the ordinary pan is placed.

The entire arch or furnace is supported upon legs H H, as shown.

Across the ash-pit in the bottom B are laid cross-bars I, for supporting the wood. As the fuel burns, the flame sweeps over the bridge-wall B<sup>1</sup> and down into the chamber B<sup>2</sup>, whereby the heat is retarded, and becomes intense under the pan placed upon the frame G'.

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

The within-described arch or furnace for boiling sap, consisting of the sides A A, front C, bottom B, bridge-wall B<sup>1</sup>, chamber B<sup>2</sup>, rear chamber B<sup>3</sup>, with top plate E, bars G, and frame G', all constructed, arranged, and combined, substantially as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

OLIVER BAKER HUGGINS.

Witnesses:

AMASA S. HUGGINS,  
FRANKLIN DAILEY.