(12) **United States Patent**
Ames

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(54) **OVENS, REFLECTING**

(76) Inventor: **Benjamin Ames**

Benjamin Ames, of Ithaca, State of New York.

Letters Patent.

The schedule referred to in these Letters Patent and making part of the same, containing a description in the words of the said Benjamin Ames himself of his "improvement in the Reflecting Oven and Boiler."

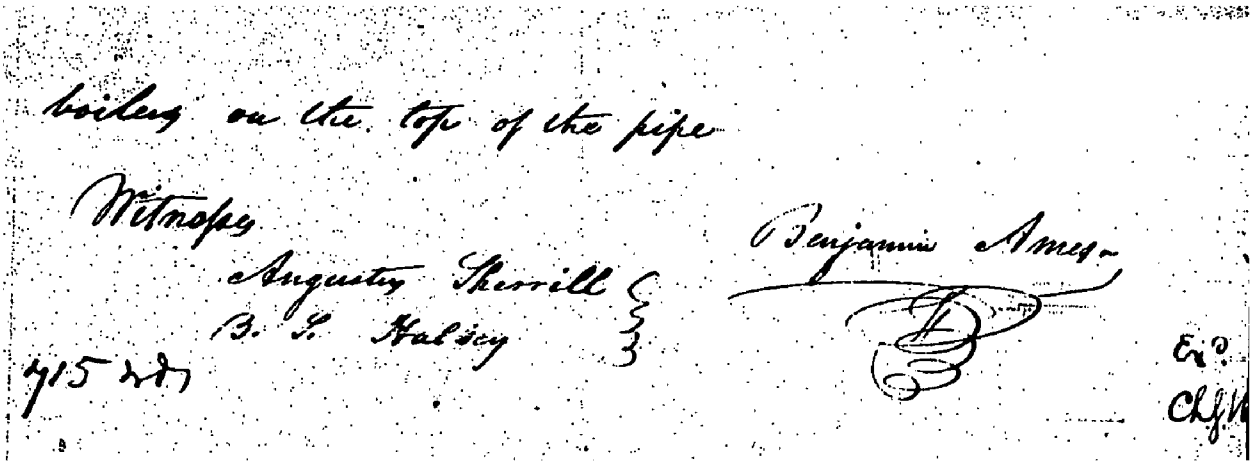
To all to whom these presents shall come.

Be it known that I Benjamin Ames of Ithaca in the County of Tompkins and State of New York, have invented a new and useful instrument, being a reflecting oven and boiler, and that the following is a full and exact description thereof.

The oven is made of sheet tin, or other material of bright surface in order to reflect the heat which is emitted from the pipe in the centre hereafter described, it may be of any size which may be desired a proper size for a family would be about two feet three inches square, and four and a half inches deep on the edge or outside the top and bottom are put on at an angle of forty five degrees or thereabouts extending in each direction about ten inches having square openings in the centre both of top and bottom of about eleven inches, which are covered with sheet iron plates, through the centre of these plates is inserted a sheet iron pipe of five inches diameter fifteen inches and an half long, so as to extend the whole depth of the oven, with a small proportion above and below in order to prevent any smoke from escaping from the pipe into the oven while cooking. This pipe rests on a sheet iron strap under the oven, about four inches from the bottom of this pipe is inserted a grate on which to place the fuel which may be either charcoal, mineral coal, or small wood, under the bottom of this pipe is placed

a pan to receive the ashes &c from the grate, this pan is to be supported a small distance below the bottom of the pipe in order to admit a current of air. On the top of the pipe may be placed a receiver for boiling any sirup which may be desired, made of sheet iron or any other material, on which to place the boilers, pots or kettles which are used in cooking or heating water into the side of this receiver is inserted the pipe to carry off the smoke from the stove, in which may be placed a damper to regulate the heat. This pipe if either charcoal or mineral coal is used may be for two and a half or three inches in diameter, but if wood is used the pipe must be large across the bottom of the perpendicular part of the stove are laid four iron straps or supporters made of sheet or strap iron, with notches in the upper edges to support the rods on which are placed the pans or other vessels containing the articles to be baked, which rods are to be placed at the distance of about three inches from each other. On these rods and around the pipe is placed a plate of sheet iron for the purpose of heating flat irons which are set on this plate, a rolled about three inches high may be placed around the pipe leaving a space of about half an inch in order to deaden the heat near the pipe, two sides of the upper part are made into doors hung upon hinges at the place of intersection with the perpendicular sides this is to be placed on legs of sheet iron or other suitable material of sufficient length to make it of convenient height for use.

What I claim as my own invention and not previously known in the above oven and boiler is the principle of confining the heat by reflection and the arrangement of the several parts for equalizing the heat and the receiver for the


boiler on the top of the pipe

Witnesses

Augustus Sherrill

B. F. Halsey

Benjamin Ames

Esq.