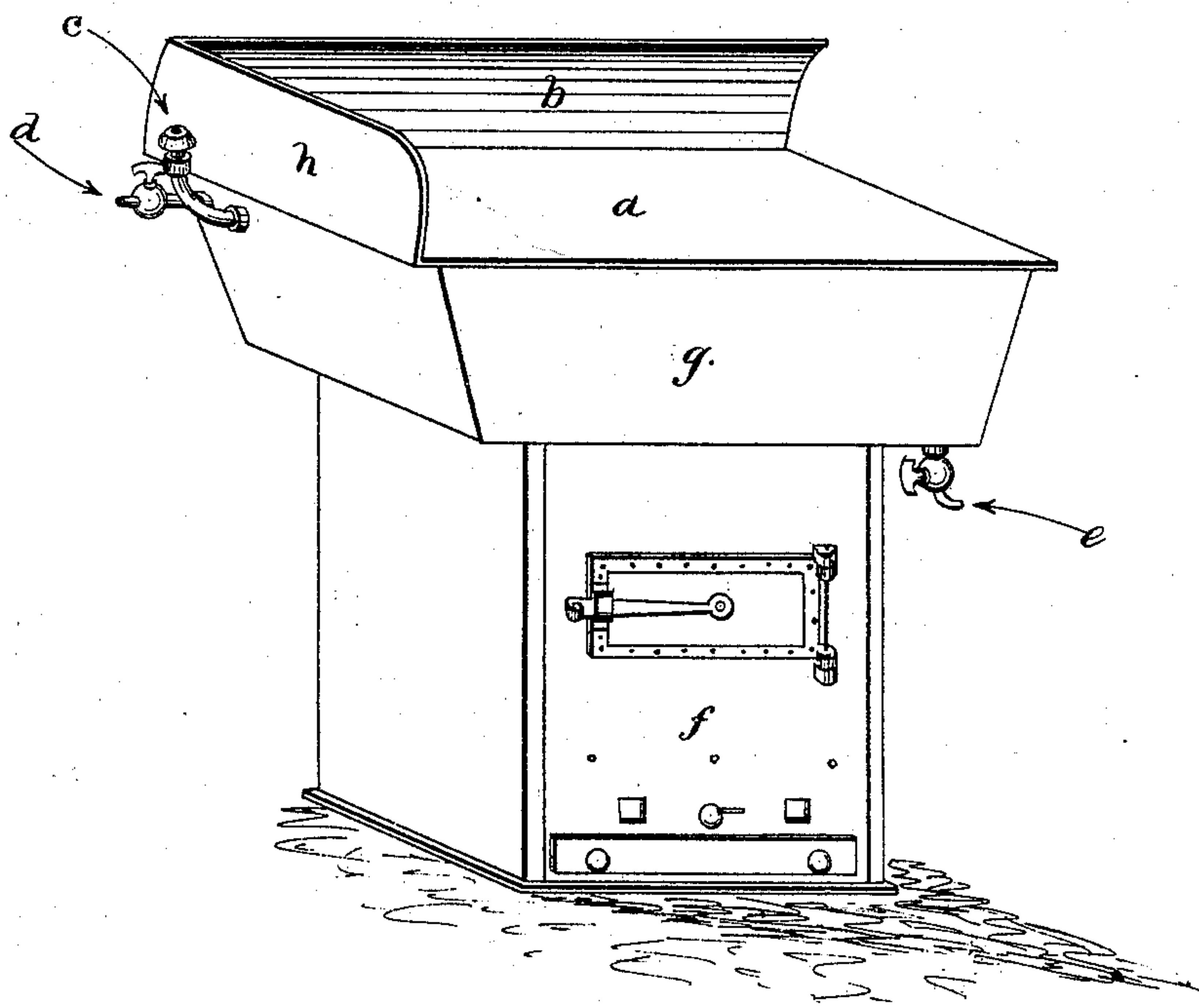


B. & H. STERN.
STEAM CANDY-HEATER.

No. 171,444.

Patented Dec. 21, 1875.



Witnesses:

John Bull
L. H. Tanner.

Inventors

Bernhard Stern.
Howard Stern.

UNITED STATES PATENT OFFICE.

BERNHARD STERN AND HERMAN STERN, OF CHATTANOOGA, TENNESSEE.

IMPROVEMENT IN STEAM CANDY-HEATERS.

Specification forming part of Letters Patent No. 171,444, dated December 21, 1875; application filed October 15, 1875.

To all whom it may concern:

Be it known that we, BERNHARD STERN and HERMAN STERN, of the city of Chattanooga, in the county of Hamilton and State of Tennessee, have invented a new and Improved Steam Candy-Heater; and we do hereby declare that the following is a full, clear, and exact description of the same.

The nature of our invention consists, first, in a charcoal-furnace, with a reservoir for water, on the top of which is placed a copper or any metal plate, with the curve, so as to assist and keep the batch in order while working the candy. We also use an end board for the same purpose.

The object of our invention is to save time, and keep away the ashes from covering the candy, and to save the operator from the effects of the gas, and many other defects of the old way in the manufacture of candy.

To enable others skilled in the art to make and use our invention, we will proceed to describe the construction and operation of the same, reference being had to the annexed drawings, which is a perspective view.

g is the reservoir, holding the hot water and steam, being made of galvanized iron or other material. *c* is a pipe for putting in hot or cold water. *d* is a pipe for letting in air, or letting out steam, when the plate is too hot. *e* is a pipe for letting out the water when through work. *f* is the charcoal heating-furnace. *a* is the copper heating-plate. *b* is the curve connected with the copper heating-plate. *h* is the end board, to help keep the candy in proper shape while working.

When boiling water is poured in the reservoir it is immediately ready for work, and when the charcoal-furnace is lighted up with a trifle of charcoal or other heating material, it will keep the water at the boiling-point which is sufficient to work upon.

The candy-heater may also be started with cold water; but it will take longer time to get at boiling-point, and will cost more. We use hot water to start at once. Thus the steam will ascend to the copper plate on top of the reservoir, and will keep the said plate hot

enough to make the candy work elastic and smooth.

The top plate can be made of copper or any other metal, and a thermometer may be attached; but any practical confectioner will know the exact heat required by using it once or twice. We use the heater with or without a thermometer.

The candy-heater can be manufactured to any size to suit the confectioner.

We claim the following advantage over the old way in making candy: No gas nor broiling heat will come to the face, or hurt the eyes with sweat and heat, and little or no gas will be inhaled by the operator. The heat from the hot water will ascend to the heating-plate, and will throw the heat directly on the batch of candy, and no farther, making a perfect and even heat all over the plate. The gas from the charcoal is carried off through a pipe into the chimney. We also claim that there is no dust or ashes falling on the candy or tables, as by the old way of furnaces in general use; and we claim that it will make smoother and harder candy by our process. We further claim the following advantages over the old way of the charcoal-furnace with our invention: we secure an even heat, and it is particularly perfect in spinning out stick-candy, or any other American candies. The old charcoal-furnaces in general use will not give such an even heat; and, if the operator is not always careful, one side generally gets too hot, and makes a crumbly and imperfect finish, while our invention makes an even and elastic heat over the whole batch of candy.

What we claim is—

The combination of the furnace *f*, the reservoir *g* on top of the same, the covering-plate *a*, heating-plate *h*, curved plate *b*, and the pipes *c d e*, all constructed substantially as and for the purposes herein set forth.

BERNHARD STERN.
HERMAN STERN.

Witnesses:

JOHN BULL,
L. H. TANNER.