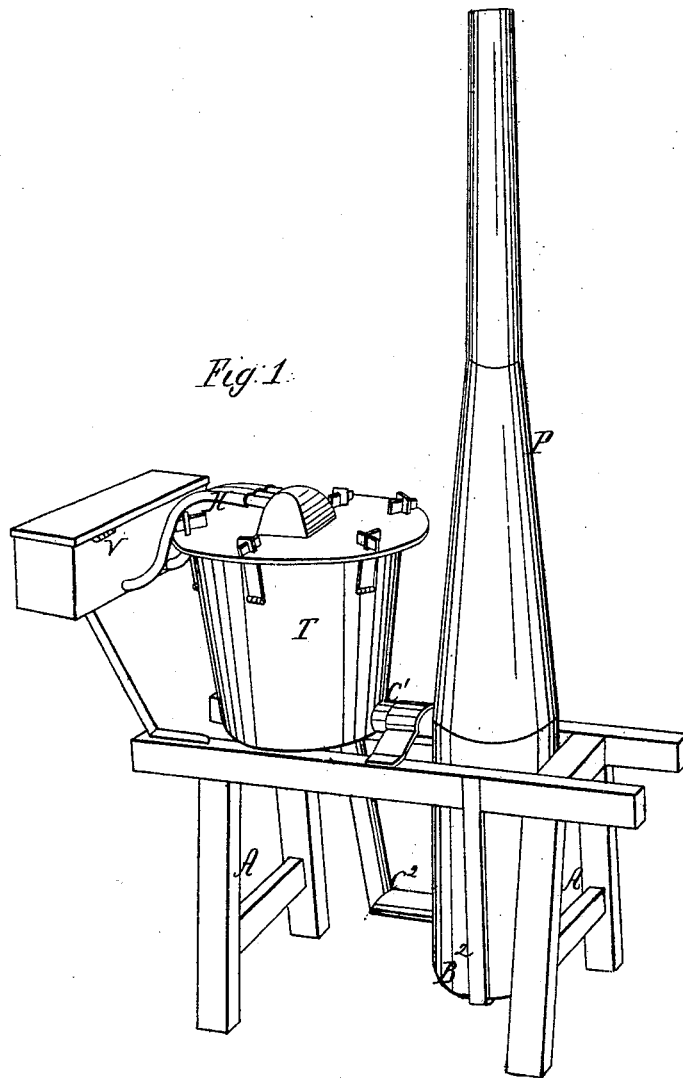
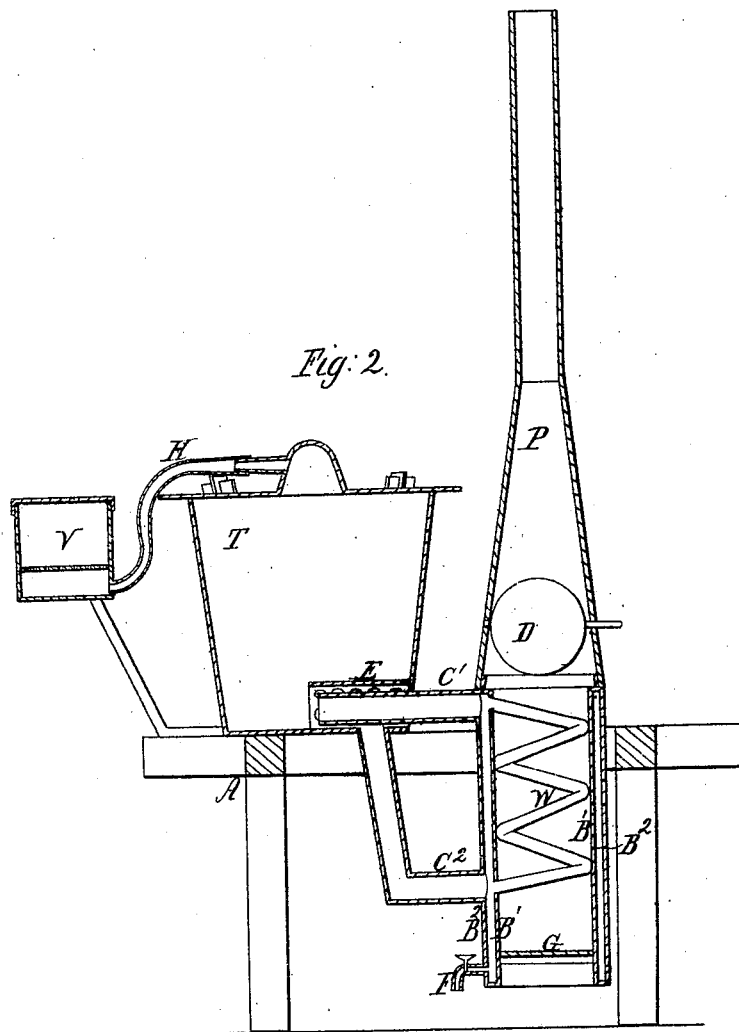


2 Sheets—Sheet 1.

A. MUNGER & J. S. MARSH.
APPARATUS FOR HEATING WATER AND STEAMING VEGETABLES, &c.
No. 2,033. Patented Apr. 2, 1841.



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UNITED STATES PATENT OFFICE.

ASA MUNGER AND JAMES S. MARSH, OF AUBURN, NEW YORK.

IMPROVEMENT IN APPARATUS FOR STEAMING VEGETABLES, &c.

Specification forming part of Letters Patent No. 2,033, dated April 2, 1841.

To all whom it may concern:

Be it known that we, ASA MUNGER and JAMES S. MARSH, of Auburn, county of Cayuga, and State of New York, have invented a new and useful improvement in an apparatus for heating water and for steaming vegetables and performing other culinary operations and other purposes for which steam may be wanted; and we do hereby declare that the following is a clear and exact description of the construction and operation of the same, reference being had to the annexed drawings, making part of this specification.

Figure 1 is a perspective view. Fig. 2 is a vertical section.

Similar letters refer to similar parts in the figures.

The boiler B² of said apparatus for heating the water should be about two feet long by nine and a half inches in diameter from outside to outside, made double, and composed of copper for the inside B¹ and zinc for the outside cylinder B², or any other metal may be used. The cylinders are placed three-fourths of an inch apart, and made perfectly tight for holding water. Both ends of the inside cylinder are open, with a grate G at the bottom and stove-pipe P on the top, furnished with a damper D, to command and control the heat. The damper should be placed in the stove-pipe near the top of the boiler. A plate or door on each side of the boiler should be arranged, which may be removed for the purpose of cleansing the inside of the boiler, and also a faucet F for drawing the water from the boiler.

The tub T for containing water is made about twenty inches high and twenty inches in diameter at the top, tapering to seventeen and one-half inches at the bottom, and may be made of wood or metal, or it may be made of any required shape and of suitable material.

The frame A for containing and supporting the boiler and tub may be about four feet long and nine and one-half inches wide, standing on four legs twenty-two inches high, and made of two-inch stuff. (The width of the frame is calculated from inside to inside, so as to admit the boiler.)

The connecting-tubes c' c² should be made of copper, zinc, or other metal, two inches in diameter, and connect the tub and boiler, as follows: The tub T is placed on the top of the frame. The boiler B² is placed within the frame, and the top of the boiler stands four

inches above the bottom of the tub and about six inches from it. The upper tube c' for discharging the heated water and steam from the boiler into the tub is straight, running horizontally from the side and near the top of the boiler into the tub one inch from the bottom of the tub, and running to the center of the tub inside. The lower tube c² for supplying the boiler with water from the tub is put through the bottom of the tub three inches from the side and directly under the upper tube, and a bridge E of metal is placed over both tubes (in the tub) to protect them from injury. The lower tube has an elbow and enters the boiler about four or more inches from the bottom. From the inside of the boiler and directly opposite the place where the lower tube enters the outside cylinder (of the boiler) a worm W or hollow tube of copper one or more inches in diameter is placed and secured to the inside cylinder, (of the boiler,) and after making two or three turns within the fire-chamber is carried to near the top and enters the inside cylinder directly opposite the upper tube c', discharging the steam and heated water into the boiler and thence into the tub, the space between the inside cylinder or fire-chamber and tube or worm to be half an inch. The water passes from the boiler or space between the two cylinders into the worm, which is kept constantly filled and circulating therein, the upper end of said worm also opening into boiler at top. The steam is taken from the head of the tub T, which is secured with hasps and keys, and carried by a steam-pipe H to any object for which it may be wanted, such as a vessel V, in which articles may be cooked. The whole apparatus may be enlarged or diminished to any size by following the proportions as given above.

We do not claim to be the inventors of the worm in the fire-chamber, nor of the combination of the tub and boiler without the worm; but

What we do claim as our invention, and desire to secure by Letters Patent, is—

The combination of the worm in the fire-chamber with the boiler and tub, for the purpose and in the manner set forth and specified above.

ASA MUNGER.
JAMES S. MARSH.

Witnesses:

A. C. MUNGER,
P. H. PERRY.