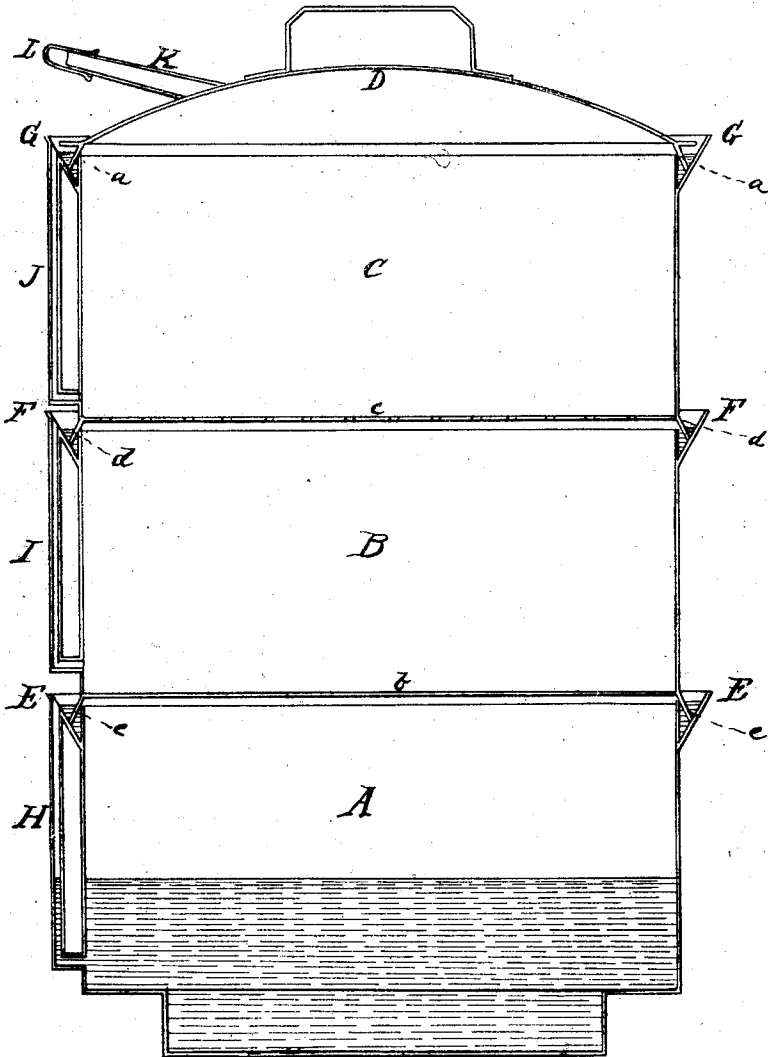


*Francis Morandi,
Culinary Appar.*

No 76,231.

Patented Mar. 31. 1868.



Witnesses.

*William C. Cleveland
Chas. P. Gouly.*

Inventor.

*Francis Morandi.
By his Attorney,
Chas. F. Gansbury.*

United States Patent Office.

FRANCIS MORANDI, OF MALDEN, MASSACHUSETTS.

Letters Patent No. 76,231, dated March 31, 1868.

IMPROVEMENT IN CULINARY APPARATUS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, FRANCIS MORANDI, of Malden, in the county of Middlesex, and State of Massachusetts, have invented a new and useful Improvement in Cooking-Apparatus; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a vertical central section of the apparatus.

The nature of this improvement consists in providing the boiler and steaming-vessels of a cooking-apparatus with water-joints and return-tubes, for the purpose of diminishing the escape of steam and odor from the apparatus, and securing the return of the water of condensation to the boiler without passing through or among the articles to be cooked, all as hereinafter more fully set forth.

In the drawing, A marks the boiler, which is intended to rest upon an ordinary cooking-stove, and may have a shoulder to enter the holes of the stove. B and C are the steaming-compartments, which have perforated bottoms, *b c*, for the upward passage of steam. D is the lid or cover. Around the upper edge of boiler A runs a trough, E, into which dips a lip, *e*, projecting from the bottom of steaming-vessel B. A similar trough, F, around the top of vessel B, receives a similar lip, *d*, projecting from the bottom of the vessel C; and a like trough, G, on steamer C, receives the lip *a* of the cover D, as shown. From near the top of trough E, a return-tube, H, descends and enters the boiler A near the bottom. A similar tube, I, leads from trough F into the steaming-vessel B, and a like tube, J, from trough G into vessel C. An escape-pipe, K, covered by a removable cap, L, projects from the top of the cover D, as shown, and serves to carry off an excess of steam, which may be led into the stove-funnel or chimney.

The troughs E F G may, if preferred, be placed on the inside of the several vessels to which they belong, but I find that they operate better on the outside.

The operation is as follows: Water is placed in the boiler A, and the articles to be cooked are placed in the steaming-vessels B and C. One or both may be used, as preferred. The troughs E F G are partially filled with water, so as to form, with the lips *a*, *d*, and *e*, water-joints between the several vessels, and between the upper vessel and the lid. When the water in A boils, the steam rises through the perforated bottoms *b c*, is diffused among the articles in the vessels B C, and seeks an exit through the joints between the vessels; but, coming in contact with the water in the troughs E F G, it is immediately condensed. When the water in these troughs is thus increased, by the addition of the condensed steam, it overflows through the tubes H I J, and is returned to the boiler A either directly, as through H, or by running down the sides of the vessels B C. Thus a supply of fresh steam is continually passing upward, during the operation, through and among the articles to be cooked, while the water of condensation returns to the boiler without passing among those articles, from which it results that there is no communication of flavor from one article to another, however dissimilar they may be in kind; and however rank or pungent their savor. If the supply of steam is excessive, it may be allowed to escape through the pipe K, which may lead to the funnel or the chimney.

Having thus fully described my improvements, what I claim, and desire to secure by Letters Patent, is—

Providing a compound steam-cooking apparatus, such as described, with water-joints and return-tubes, substantially in the manner and for the purpose specified.

The above specification of my said invention, signed and witnessed at Boston, this first day of February, A. D. 1868.

FRANCIS MORANDI.

Witnesses:

WILLIAM C. CLEVELAND,
CHAS. F. STANSBURY.