

(No Model.)

W. DAWSON.
APPARATUS FOR RAISING BREAD.

No. 460,238.

Patented Sept. 29, 1891.

FIG. 1

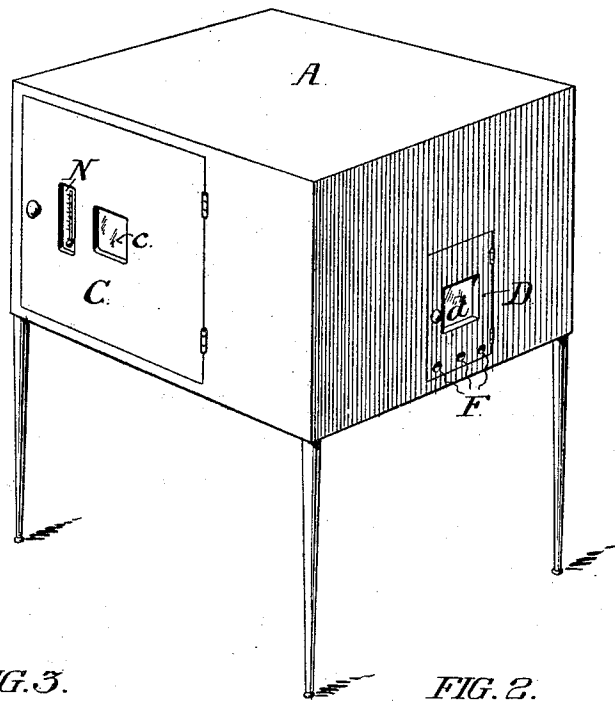


FIG. 3.

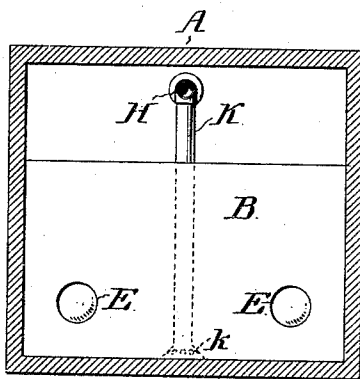
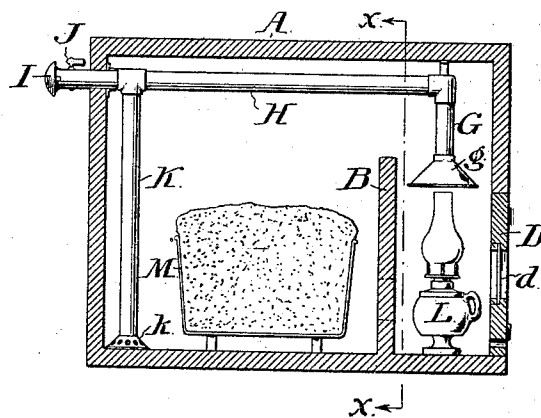


FIG. 2.



WITNESSES:

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APPARATUS FOR RAISING BREAD.

SPECIFICATION forming part of Letters Patent No. 460,238, dated September 29, 1891.

Application filed January 20, 1891. Serial No. 378,438. (No model.)

To all whom it may concern.

Be it known that I, WILLIAM DAWSON, of Ogontz, in the county of Montgomery and State of Pennsylvania, have invented certain new and useful Improvements in Apparatus for Raising Bread, whereof the following is a specification, reference being had to the accompanying drawings.

In said drawings, Figure 1 represents a view in perspective of the exterior of the apparatus. Fig. 2 is a central vertical longitudinal section through the same, and Fig. 3 is a vertical transverse section through the same on line *xx* of Fig. 2.

The object of my invention is to provide a cheap, simple, and efficient device for raising bread, so arranged as to be within perfect control and free from the objections incident to this class of apparatus.

In the drawings, A represents the box or exterior casing, which is partly divided by an internal partition B into two compartments communicating across the top of said partition. The larger of these compartments is provided with a door C and the smaller with a door D, each of which doors preferably has a glass window in its center, as indicated at *c* and *d*, respectively, to permit observation of the interior. Two holes E E are formed near the bottom of the partition and fitted with bull's-eyes, and a series of small holes F is formed in the door D near its bottom.

An overhanging chimney G, with a hood *g*, is placed centrally over the smaller compartment, and said chimney is provided with a horizontal pipe H, which extends across the top of the larger compartment and out through the end thereof, as shown clearly in Fig. 2. The outer end of said pipe is provided with a shield or open cover I and with a damper J. In the larger chamber and adjacent to that end thereof where the pipe H passes out is a vertical pipe K, communicating with the interior of the pipe H and leading to the bottom of the box, where it is provided with a series of small inlet-holes *k*. An ordinary

kerosene-lamp L or other heating device is placed in the smaller compartment with its chimney immediately beneath the hood *g*. The pan M, containing the bread to be raised, is placed in the larger compartment.

The operation of the device is as follows: The lamp L heats the air in the smaller compartment, and, although the partition B protects the bread-pan from any direct radiation, a circulation of heated air is maintained between the two compartments by means of the open space at the top of the partition. Fresh air is supplied to the lamp through the holes F and the products of combustion pass out through the chimney G and pipe H. As the moisture is given out by the bread in the act of raising it is carried off by means of the pipe K, whose inlet-holes *k*, being arranged at the bottom of the box, draw off the moist air therefrom, and the rapidity of the circulation through the box is regulated by means of the damper J. The shield I prevents any indraft, which might cause the lamp to smoke, and the windows *c* and *d* permit the operator to watch, on the one hand, the progress of the raising, and on the other the condition of the lamp-flame. A thermometer N may, if desired, be inserted in the door C and still further facilitate the ascertainment of the conditions proper for successful work.

Having thus described my invention, I claim—

The combination of an inclosing case, an interior partition partly dividing the same into two compartments, a chimney and chimney-pipe leading from one of said compartments to the outer air, a ventilating-pipe communicating with said chimney-pipe and arranged in the other of said compartments, and a lamp arranged beneath said chimney, substantially as set forth.

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Witnesses:

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