

W. R. K. STANFORD.
KITCHEN RANGE.
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1,061,699.

Patented May 13, 1913.

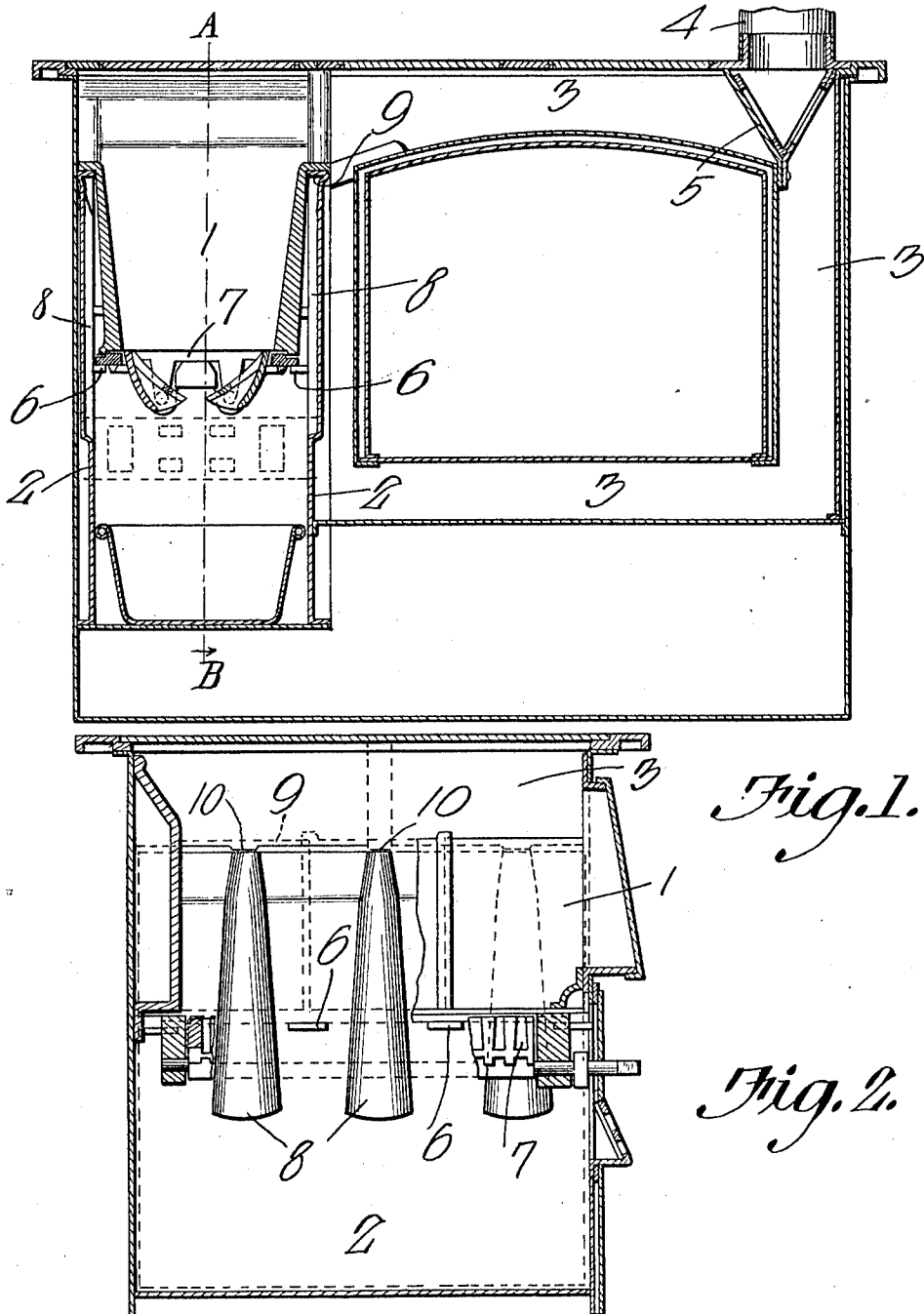


Fig. 1.

Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM R. K. STANFORD, OF LAWLEY, ALABAMA.

KITCHEN-RANGE.

1,061,699.

Specification of Letters Patent.

Patented May 13, 1913.

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To all whom it may concern:

Be it known that I, WILLIAM R. K. STANFORD, a citizen of the United States, residing at Lawley, in the county of Bibb and State of Alabama, have invented a new and useful Kitchen-Range, of which the following is a specification.

This invention relates to kitchen ranges of that type wherein the fire pot and ash pit are separated from the oven and its flues by a metal partition on which the fire pot and grate are partly supported.

One of the objects of the invention is to provide means applicable to such a stove for mingling hot air with the products of combustion passing off from the fire pot to consume the smoke therein.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings:—Figure 1 is a longitudinal section of a stove constructed in accordance with the present invention. Fig. 2 is a section through the range on the line A—B Fig. 1, a portion of the fire pot being removed.

Referring to the figures by characters of reference 1 designates the fire pot of the stove separated by the partition 2 from the smoke flues 3 of the oven. This partition does not, of course, extend up to the top of the stove, the usual space being provided for the direct draft to the smoke pipe 4. A damper 5 is shown for controlling the direct and indirect draft of the oven, but this forms no part of the present invention.

The partition 2 is provided with ledges 6 on which rests the grate 7 of the fire pot. In the partition 2 is formed a series of channels 8 extending from below the grate to a point close to the top of the partition. The top of this partition is provided with a flange 9 on which rests the flanged upper edge of the fire pot 1. Openings 10 are formed in this flange and at the upper ends of the channels

8 and these openings form nozzles through which air may flow into the space below the stove top and above the fire pot. By thus forming an air space between the partition 2 and the fire pot sufficient air is heated and directed through the openings 10 to combine with and burn the smoke contained in the products of combustion and as the jets of air issue in the direction in which the products of combustion are traveling, the suction created by the draft of the stove is sufficient to maintain a proper flow of this heated air. It is to be understood of course that the particular method of forming the air channels can be changed according as the invention is applied to sheet metal or cast metal ranges.

What is claimed is:—

1. In a stove, the combination with opposed partitions having inwardly directed top flanges, of a fire pot bearing downwardly on the flanges and supported thereby between the partitions, there being openings within the contacting portions of the flanges and fire pot and constituting nozzles, there being longitudinal depressions or channels within the partitions and extending from the openings downwardly to points below the fire pot.

2. In a stove, the combination with oppositely disposed partitions having inwardly directed supporting flanges at their upper edges, of a fire pot interposed between the partitions and having outstanding flanges bearing downwardly on the flanges of the partitions, there being openings through the contacting flanges, said partitions having longitudinally extending depressions or channels extending from the openings in the flanges and downwardly to points below the fire pot to receive air from the ash chamber under the fire pot.

3. In a stove, oppositely disposed partitions constituting walls of an ash compartment, said partitions having inwardly directed top flanges, a fire pot having outstanding flanges supported by the flanges on the partitions, there being openings through the flange of one of the partitions and the adjacent flange of the fire pot, said partition having longitudinal depressions in one face thereof forming channels communicating with the openings in the flange and with the ash compartment below the fire pot, said fire pot having its outer walls converging downwardly to form an air space between

the fire pot and the partitions, spaced ledges upon the partitions, and a grate supported by the ledges, there being air passages between the ledges, said longitudinal channels
5 or depressions extending below the grate supporting ledges.

In testimony that I claim the foregoing as

my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM R. K. STANFORD.

Witnesses:

T. W. JEFFERSON,

J. S. LATHAM.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
