D. D. BERRY.

STOVE OR RANGE.

APPLICATION FILED JAN. 22, 1908.

900,821. Patented Oct. 13, 1908.

Fig. 1

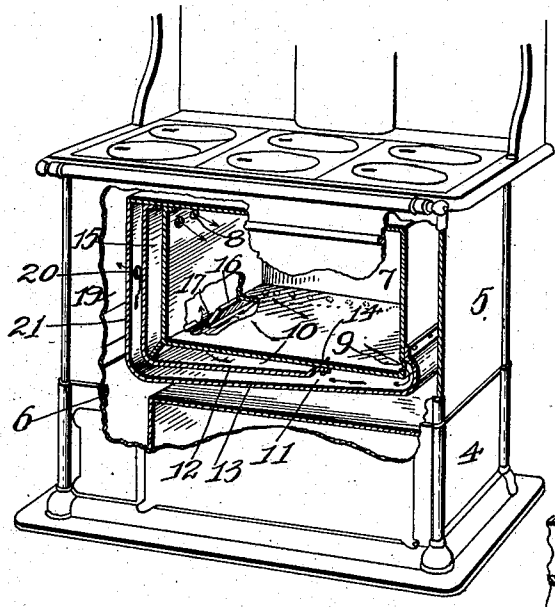


Fig. 3.

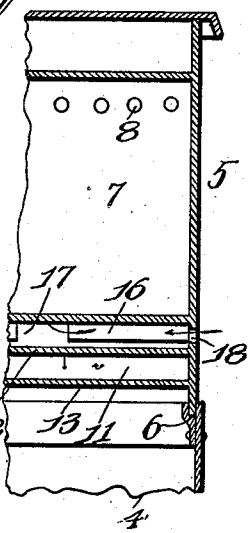
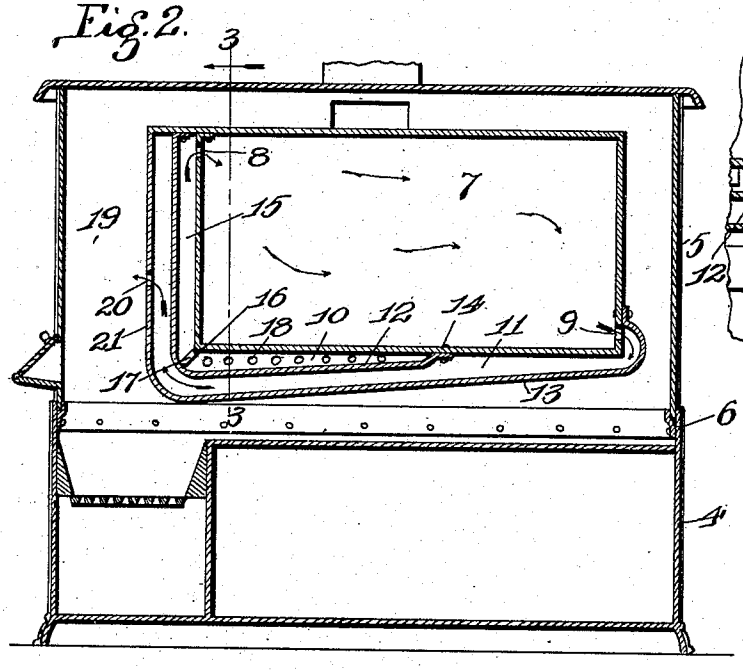


Fig. 2.



Witnesses
H. C. Stein
L. A. L. McIntyre

Inventor
Daniel D. Berry
by Hopkins & Eicks Atty's

THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

DANIEL D. BERRY, OF SPRINGFIELD, MISSOURI.

STOVE OR RANGE.

No. 900,821. Specification of Letters Patent. Patented Oct. 13, 1908.

Application filed January 22, 1908. Serial No. 412,067.

To all whom it may concern:

Be it known that I, DANIEL D. BERRY, a citizen of the United States, and resident of Springfield, Missouri, have invented certain new and useful Improvements in Stoves or Ranges, of which the following is a specification.

This invention relates to improvements in stoves or ranges and consists in the novel arrangement, construction and combination of parts as will be fully hereinafter described and claimed.

My invention is an improvement upon my former invention shown in the patent granted to me May 30th, 1905, No. 791,400.

The principal object of my invention is to provide a plurality of chambers beneath and at one side of the oven, into which fresh air is admitted, thoroughly heated and circulated through the several chambers and passing through the oven in a heated condition.

A further object of my invention, is to construct a stove or range in two parts, so that access may be had to the flue located between the bake oven and warming oven, and so that access may be had to the chambers located on the bottom and at one side of the bake oven, while constructing the stove or range.

Figure 1 is a perspective view of my invention, with a part of the front wall broken away, showing the construction. Fig. 2 is a central vertical sectional view of my complete invention. Fig. 3 is a sectional view with a part broken away, taken on the line 3—3 of Fig. 2.

In the construction of my invention, I provide a base section 4, and a top section 5, the upper edge of the base section is provided with a pocket 6, in which the under edge of the top section is seated, and when both sections are placed together, a complete air tight joint is formed.

In the upper section is located the bake oven 7, the left hand wall thereof provided with a plurality of air passages 8, located near the upper edge, and preferably formed in alinement. In the right hand wall of the bake oven and near the bottom is also provided a plurality of air passages 9.

Beneath the bake oven, I provide chambers 10 and 11, formed by the casings 12 and 13, the casing 12 secured to the under side of the bake oven at the point indicated by the numeral 14, and extends around the corner and upwardly along the end of the bake oven, forming a chamber 15, the chambers 10 and 15 formed by the casing 12 is divided by a bridge wall 16, extending from the corner of the bake oven to the casing, and the said bridge wall is provided with an air passage 17, preferably centrally located which is clearly shown in Fig. 1.

In the front and rear walls of the upper section 5, I provide a plurality of air passages 18, which lead into the chamber 10, through which fresh air is admitted into said chamber. The air which is admitted from the outside through the air passages 18 into the chamber 10, is thoroughly heated and permitted to pass through the air passage 17 upwardly through the chamber 15 and into the bake oven through the air passages 8, the heated air then passes through the bake oven and out by way of the air passages 9 into the chamber 11, it then takes the course through the chamber 11 and out into the smoke or flame passage 19, located in front of the bake oven, through the air passages 20 formed in the front wall 21 of the casing 13.

The heat from the fire box contacts with the casing 13, and the front wall 21, thereof, thoroughly heating the fresh air entering in the chamber 10 before it is permitted to pass into the bake oven, the circulation of said air taking the course as shown by the arrows in Figs. 1 and 2.

The object of forming my stove in two sections, the division line being at the point in alinement with the flue located between the bake oven and the warming oven, is to be able to more readily apply the casings on the bake oven and to be able to gain access to the flue when it is desired to cleanse the same, and to the fire box in manufacturing and repairing.

Having fully described my invention what I claim is:

A device of the class described comprising a stove or range composed of two sections, one mounted upon the other, a bake oven, casings connected to the bake oven and located beneath and at one side of said bake oven forming inner and outer chambers, a bridge wall located at the corner of the bake oven, dividing the innermost chamber into two compartments, said bridge wall having an air passage to permit the fresh heated air to pass from one compartment to the other, the front and rear walls of the upper section provided with air passages, communicating with the innermost chamber for admitting

fresh air into the same, the two end walls of the bake oven provided with air passages, and the vertical wall of the outer casing provided with air passages through which the heated air after having passed through the oven, can pass out into the flue, substantially as specified.

In testimony whereof, I have signed my name to this specification, in presence of two subscribing witnesses.

DANIEL D. BERRY.

Witnesses:

GEORGE R. LIKINS,

J. EUGENE LAWRENCE.