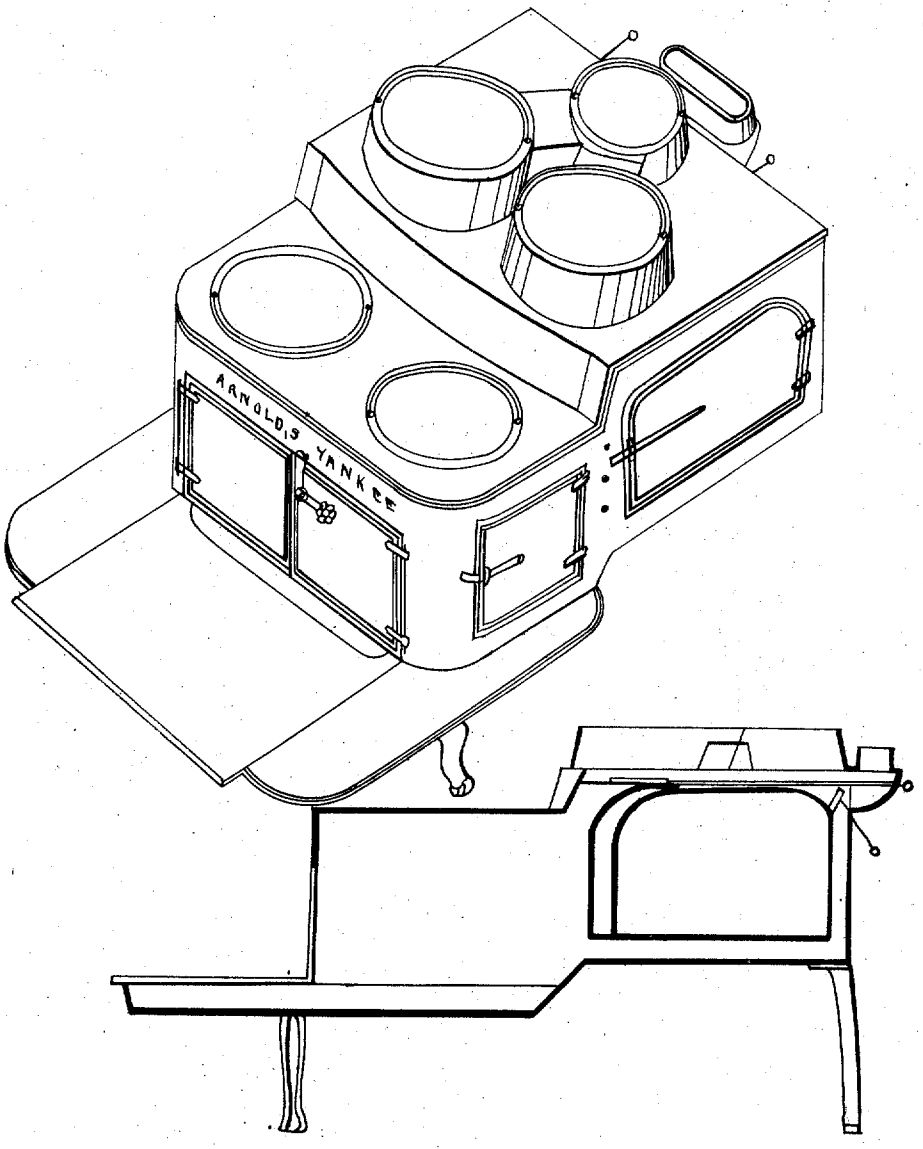
9722X

W. A. Arnold.

Cooking Stove.

Patented Jun. 16, 1836.



6/16/1836 9722X

June 16. 1836 385

Willard A Arnold of Northampton Massachusetts

Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Willard A. Arnold himself of his "improvement in the Cooking Stove."

To all persons to whom these presents shall come Greeting. Be it known that I Willard A. Arnold of Northampton in the County of Hampshire and Commonwealth of Massachusetts. For [illegible] have invented a new and useful improvement in Cooking Stoves & which I have denominated Arnolds Cambrian Cooking Stove and that the following is an exact and full description of the construction and operation of said Cooking Stove as invented improved and combined by me.

My said invention improvement or new combination of machinery consists of a cast iron stove of any required dimensions standing on three or more legs and having an elliptical or semi circular hearth with a deep hearth of two or more inches in depth in the centre of it extending under the fire place. Back of this elliptical hearth and on the same level with it is a fire place having folding doors in front and one in the end of it for feeding the fire. Back of the fire place is a cast iron oven having doors opening on each end of it, and the top of the oven being in the form of an arch. Between the oven and the fire place is a platten fender placed one inch or more in front of the oven rising to the point where the arch of the oven is sprung when it is made gradually to approach the oven until it comes in contact with and rests upon the top of the oven. In the side pieces of the stove between this iron fender and the oven are made three or more small perforations to admit air for the purpose of regulating the heat of the oven. A passage for the heat and smoke of the fire one inch or more in depth extending the whole breadth of the stove and raised one or more inches above the bottom of the bottom of the hearth of the fire place is made

6|16|1836 9722X

under the oven and up the back side of it. from thence is an oval collar throug a lip and collar into the funnel or conductor leading into the chimney. The passage on the back side of the oven being a little larger than that will admit. another passage for heat and smoke is made from the lip of the fire place and over the oven into the funnel or conductor aforesaid occupying the space between the lip of the oven and the lip plate of the stove back of the fire place. At the rear and lower corner of the stove below the lip and collar is a damper. which shuts off or admits the heat and smoke through the passages under and up the back side of the oven. The whole body of the stove back of the fire place is raised one or more inches higher than the front part. That part of the hearth which is in front of the folding doors of the fire place is to be covered with a plate sliding in grooves on each side and by which the draft of the stove is to be regulated. The top plate or plates of the stove extend from the front of the fire place back to the lip and collar through which the smoke is conducted into the funnel or other outlet. There are two or more perforations in the top plate directly over the fire place for the adaptation of pots kettles and other culinary utensils with rims and covers. Over the front part of the top of the oven are two or more perforations for the same purpose with collars. rims and covers, back of which oven can be constructed. if needful to be connected with stove in front by square channels for the free passage of heat and smoke from stove in front to stove in the oven. The top of the stove back of the fire place is elevated one or more inches above the top of the oven.

Should it be desirable to have more room for baking than is contained in the cast iron oven it may be had by placing tin cylinders on the top of the stove. with doors. reaching the oven or a part of the top of the stove.

Operation. By constructing a fire in the fire place the heat and smoke will pass off through the two passages before and under and back of the oven as before described. through the lip and

6/16/1836 9722X

387.

collar into the funnel or hollow bulb thereof and by which the necessary heat will be generated for baking boiling and all other culinary purposes for which it may be required

The said Willard A Arnold claims as his own invention and improvement in the Cooking Stove herein before described only the particular combination of parts and machinery as herein described and combined for that purpose. And the said Willard A. Arnold does further solemnly declare that he is a free and native born Citizen of the United States.

In testimony that the foregoing is a full and exact description and specification of the construction and operation of said invention improvement and new combination of parts and machinery for a cooking Stove I have hereunto set my hand at Northampton aforesaid this ninth day of April in the year of our Lord One thousand Eight hundred and forty six.

Witness
A. D. Saunders
Curtis Colling

Willard A. Arnold

(1040 Words)

(Patented June 16. 1836)

Drawing