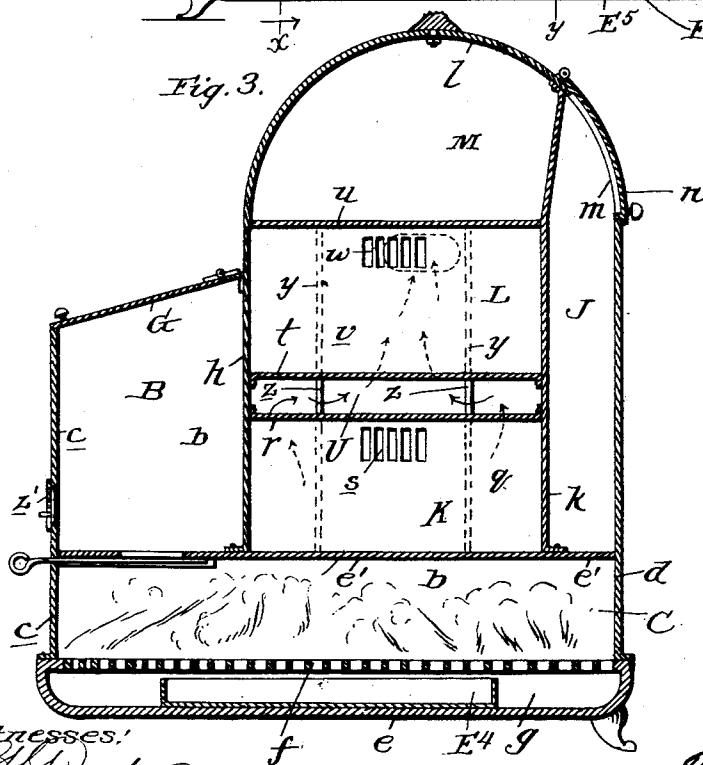
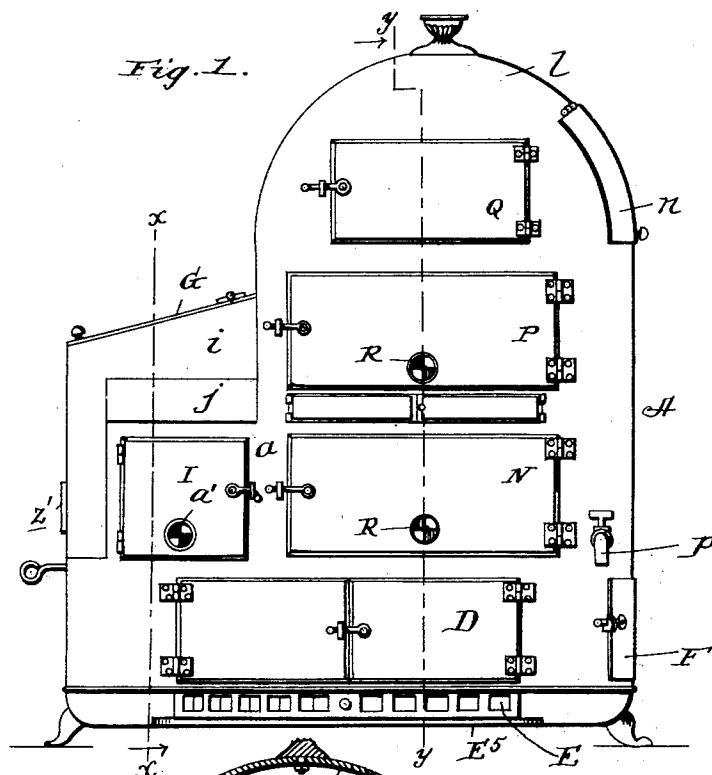


T. GASKINS.
COOKING STOVE OR RANGE.

No. 520,229.

Patented May 22, 1894.



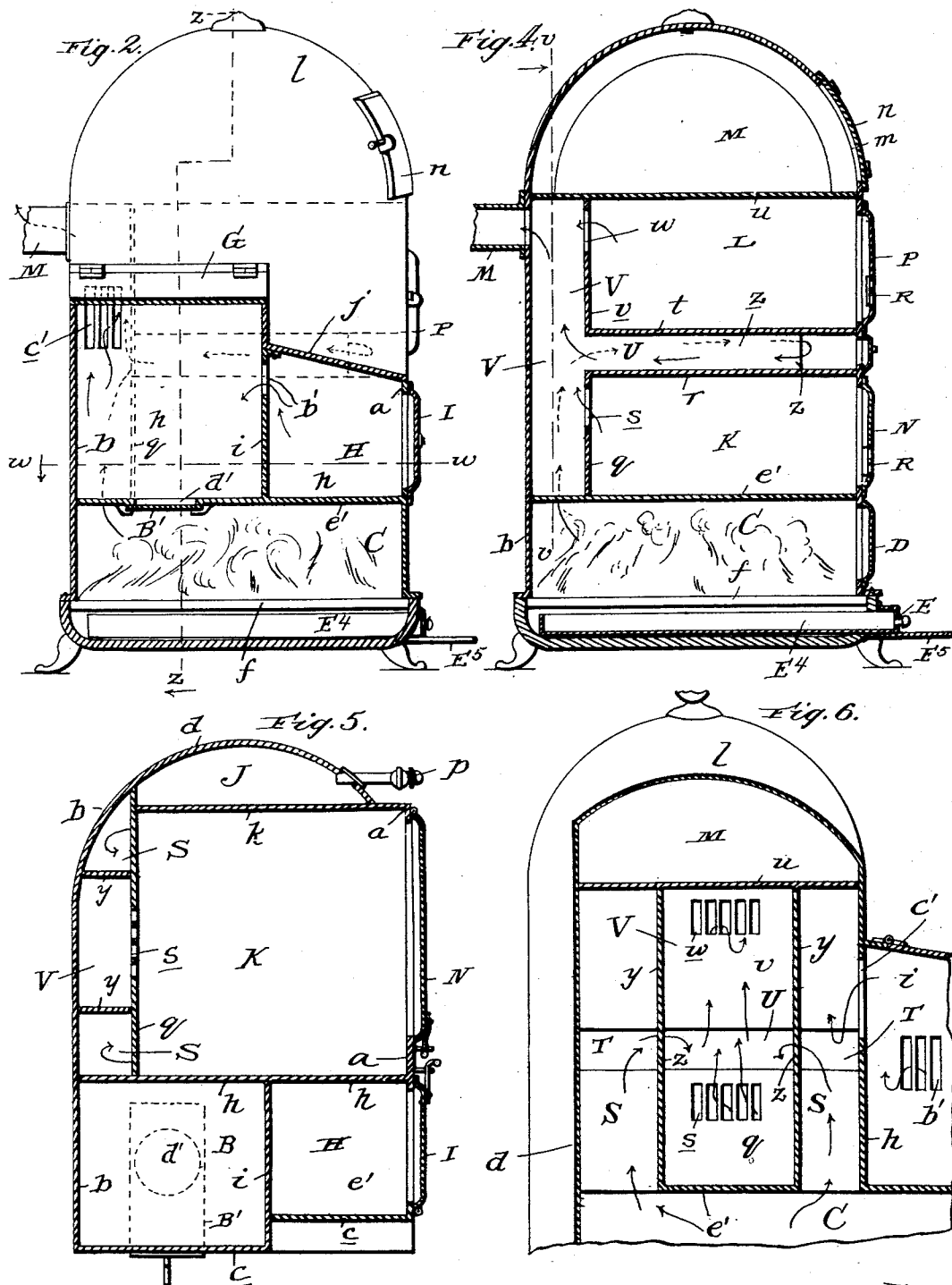
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UNITED STATES PATENT OFFICE.

THOMAS GASKINS, OF ARCADIA, FLORIDA.

COOKING STOVE OR RANGE.

SPECIFICATION forming part of Letters Patent No. 520,229, dated May 22, 1894.

Application filed February 3, 1894. Serial No. 498,948. (No model.)

To all whom it may concern:

Be it known that I, THOMAS GASKINS, a citizen of the United States, residing at Arcadia, in the county of De Soto and State of Florida, have invented certain new and useful Improvements in Cooking Stoves or Ranges; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in cooking stoves or ranges, and it has for its general object to provide a stove or range embodying such a construction and arrangement of parts that the odors arising from the cooking are conducted up the chimney and are absolutely prevented from escaping into the room where the cooking is being conducted.

Another object of the invention is to provide a simple and compact stove or range embodying a large number of ovens and cooking apartments so arranged that they may all be thoroughly heated by a single fire and with the consumption of a comparatively small amount of fuel.

Other objects and advantages will appear from the following description and claims when taken in connection with the annexed drawings, in which—

Figure 1, is a front elevation of my improved stove or range. Fig. 2, is a vertical section taken in the plane indicated by the line *x, x*, of Fig. 1, looking in the direction indicated by arrow. Fig. 3, is a vertical section taken in the plane indicated by the line *z, z*, of Fig. 2. Fig. 4, is a vertical section taken in the plane indicated by the line *y, y*, of Fig. 1. Fig. 5, is a horizontal section taken in the plane indicated by line *w, w*, of Fig. 2, and Fig. 6, is a detail vertical section taken in the plane indicated by the line *v, v*, of Fig. 4, looking toward the front of the stove.

Referring by letter to said drawings:—A, indicates the body of my improved stove or range.

B, indicates the lateral apartment which is preferably arranged at the left hand side of the body, and C, indicates the fire box which is arranged beneath the body A, and apartment B, as illustrated. This fire box C, is formed by the front, back and side walls *a*, *b*, *c*, and *d*, and the bottom and top walls *e*, *e'*,

and it is provided with the grate *f*, arranged above the bottom *e*, so as to form an ash pit *g*, and is also provided with the front doors *D*, and the apertured hearth plate *E*, arranged respectively above and below the grate *f*, and the side door *F*, arranged above the grate, as shown. The lateral apartment B, at the side of the body A, is formed by the vertical side wall *c*, the back wall *b*, the vertical wall *h*, which also forms one side of the body A, and the front wall *i*, which is arranged in rear of the front wall *a*, and it is designed to receive pots or similar cooking utensils and is consequently provided with a hinged cover *G*, as illustrated, to prevent odors arising from the cooking from escaping into the room, and is also provided in its side wall with a damper *z'*, as shown.

H, indicates a sub-apartment which is formed in front of the apartment B, by the walls *a*, *c*, *h*, *i*, *e'*, and the top wall *j*, and is designed to receive coffee-pots and the like, and is consequently provided with a front door as *I*; and *k*, indicates a vertical wall which is designed to serve in conjunction with the walls *a*, *b*, *d*, and *e'*, to form a receptacle *J*, for water to be heated and is also designed to form one of the side walls of the ovens *K*, *L*, and *M*, presently to be described. The water receptacle *J*, extends from the wall *e'*, to the dome *l*, of the body A, and it is provided in said dome with a feed opening *m*, normally closed by a hinged door as *n*, and is also provided adjacent to its bottom with a faucet *p*, (see Fig. 1,) through which the hot water may be drawn from the receptacle when desired.

As better shown in Fig. 3, the ovens *K*, *L*, and *M*, are arranged in a vertical course or tier, the oven *K*, being next to the fire box, the oven *L*, in the middle and the oven *M*, at the top. The oven *K*, is formed by the walls *a*, *e'*, *h*, *k*, the rear vertical wall *q*, and the horizontal wall *r*, and it is provided in its rear wall *q*, with one or more openings *s*, through which the aqueous vapor and the odors arising from the substance being cooked may pass into the flue *N*, and be conducted thereby to the chimney or other outlet. The oven *L*, is formed by the vertical walls *a*, *h*, *k*, the horizontal wall *t*, arranged about the proportional distance illustrated above the

wall *r*, the upper horizontal wall *u*, and the rear vertical wall *v*, which latter is provided with an escape opening or series of openings *w*; and the oven *M*, which is only intended for keeping cooked substances hot, is formed by the horizontal wall *u*, the dome *l*, and the wall *J*.

All of the ovens *K*, *L*, and *M*, are provided upon the front of the stove with doors *N*, *P*, and *Q*, and the doors *N*, and *P*, of the ovens *K*, and *L*, are provided in turn with dampers as *R*, designed to admit air for the purpose of drawing the aqueous vapors and odors out of the ovens through the openings *s*, and *w*. As better shown in Fig. 6, of the drawings, the walls *q*, and *v*, of the ovens *K*, and *L*, serve in conjunction with the walls *b*, *d*, and *h*, and the vertical walls *y*, to form vertical flues *S*, which communicate at their lower ends through openings in the wall *e'*, with the fire box *C*. These vertical flues *S*, also communicate at an intermediate point of their length with the horizontal flues *T*, formed by the lateral extensions *z*, of the walls *y*, and the walls *r*, *t*, *h*, and *k*; and these horizontal flues merge into a horizontal flue *U*, formed between the extensions *z*, which flue *U*, in turn merges into the vertical flue *V*, between the walls *y*, which leads to the smoke pipe *M*. By the provision of the flues *S*, *T*, *U*, and *V*, it will be perceived that the flames, smoke, and particles of combustion are caused to take a circuitous course between the top wall of the oven *K*, and the bottom wall of the oven *L*, and that they will consequently thoroughly heat the said ovens as well as the other apartments of the stove.

In order to exhaust the aqueous vapor and odors from the apartments *H*, and *B*, I provide a damper *a'*, in the door *I*, an opening *b'*, in the wall *i*, between said apartments, and an opening *c'*, in the wall *h*, opposite one of the flues *S*, whereby it will be seen that the vapors and odors from both apartments will pass into the said flue and be carried off.

d', indicates an opening which is formed in the bottom wall *e'*, of the apartment *B*. This opening *d'*, is provided so that the flames in the fire box can act directly against the bottom of a pot in the apartment when desired, and it is controlled by a slidable damper as *B'*, which can be closed when a moderate heat in the apartment is desired and opened when a great heat is necessary.

It will be seen from the foregoing that my improved stove is adapted to cook all articles of food without permitting any odor to escape into the room where the cooking is being conducted; and it will also be seen that my improved stove while possessing a large capacity is very simple and compact and that by reason of the peculiar construction and arrangement, a single fire is made to thoroughly heat all the ovens and other apartments.

As better shown in Figs. 2, and 4, of the drawings, the apertured plate *E*, is fixedly connected to or formed integral with a slid-

able pan *E'*, which is designed and adapted to be withdrawn or slid out over the hearth *E'*, to facilitate the removal of ashes, &c.

I have specifically described the arrangement of the several dampers of my improved stove as I have found from experience that such arrangement is advantageous. I do not however desire to be understood as confining myself to such arrangement of the dampers as they may be disposed in any suitable manner so as to gain the desired drafts. I also do not desire to be understood as confining myself to the specific construction and arrangement of the other parts of my stove as such changes or modifications may be made in practice as fairly fall within the scope of my invention.

Having described my invention, what I claim is—

1. A cooking stove or range, comprising a fire box, ovens or cooking apartments *K*, and *L*, arranged one above the other above the fire box and having openings *s*, *w*, in their rear walls and also having a space between them, vertical flues *S*, communicating at their lower ends with the fire box, horizontal flues *T*, communicating with the flues *S*, at an intermediate point of the length thereof, a horizontal flue *U*, arranged between the flues *T*, and communicating with the said flues at their ends remote from the flues *S*, and a vertical flue *V*, arranged between the flues *S*, and communicating with the flue *U* and the openings *s*, *w*, and leading to the smoke pipe or other outlet, substantially as and for the purpose set forth.

2. The herein described cooking stove or range comprising the fire box, the oven *K*, arranged above the fire box, the oven *L*, arranged a slight distance above the oven *K*, so as to form a flue space between the two, the oven or apartment *M*, arranged above the oven *L*, the water receptacle *J*, arranged at the side of the ovens *K*, *L*, and *M*, and extending from the fire box to the top of the stove, the lateral apartment *B*, arranged on the opposite side of the ovens *K*, and *L*, with respect to the receptacle *J*, the sub-compartment *H*, arranged in front of the apartment *B*, vertical flues *S*, communicating at their lower ends with the fire box, horizontal flues *T*, formed between the ovens *K*, and *L*, and communicating with the flues *S*, at an intermediate point of the length thereof, a horizontal flue *U*, arranged between the flues *T*, and communicating with the said flues at their ends remote from the flues *S*, and a vertical flue *V*, arranged between the flues *S*, and communicating with the flue *U*, and leading to a smoke pipe or other outlet, substantially as and for the purpose set forth.

3. The herein described cooking stove or range comprising the fire box, the oven *K*, arranged above the fire box and having an air inlet and also having an opening *s*, in its rear wall, the oven *L*, arranged a slight distance above the oven *K*, so as to form a flue space

between the two and having an air inlet opening and also having an opening *w*, in its rear wall, the oven or apartment M, arranged above the oven L, the water receptacle J, arranged at the side of the ovens K, L, and M, and extending from the firebox to the top of the stove, the lateral apartment B, arranged on the opposite side of the ovens K, and L, with respect to the receptacle J, and having an opening *c'*, in its inner side wall, the sub-compartment H, arranged in front of the apartment B, and having an air inlet opening and also having the opening *b'*, in its rear wall, the vertical flues S, arranged in rear of the ovens K, and L, and communicating at their lower ends with the fire box, horizontal flues T, formed between the ovens K, and L,

and communicating with the flues S, at an intermediate point of the length thereof, a horizontal flue V, arranged between the flues T, and communicating with the said flues at their ends remote from the flues S, and a vertical flue V, arranged between the flues S, and communicating with the flue U, and the openings *s*, *w*, and leading to a smoke pipe or other outlet, all substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS GASKINS.

Witnesses:

ED. M. EARNEST,

CHAS. E. EARNEST, Jr.