

G. W. WHITE.
Cooking-Ranges.

No. 153,138.

Patented July 14, 1874.

Fig. 1.

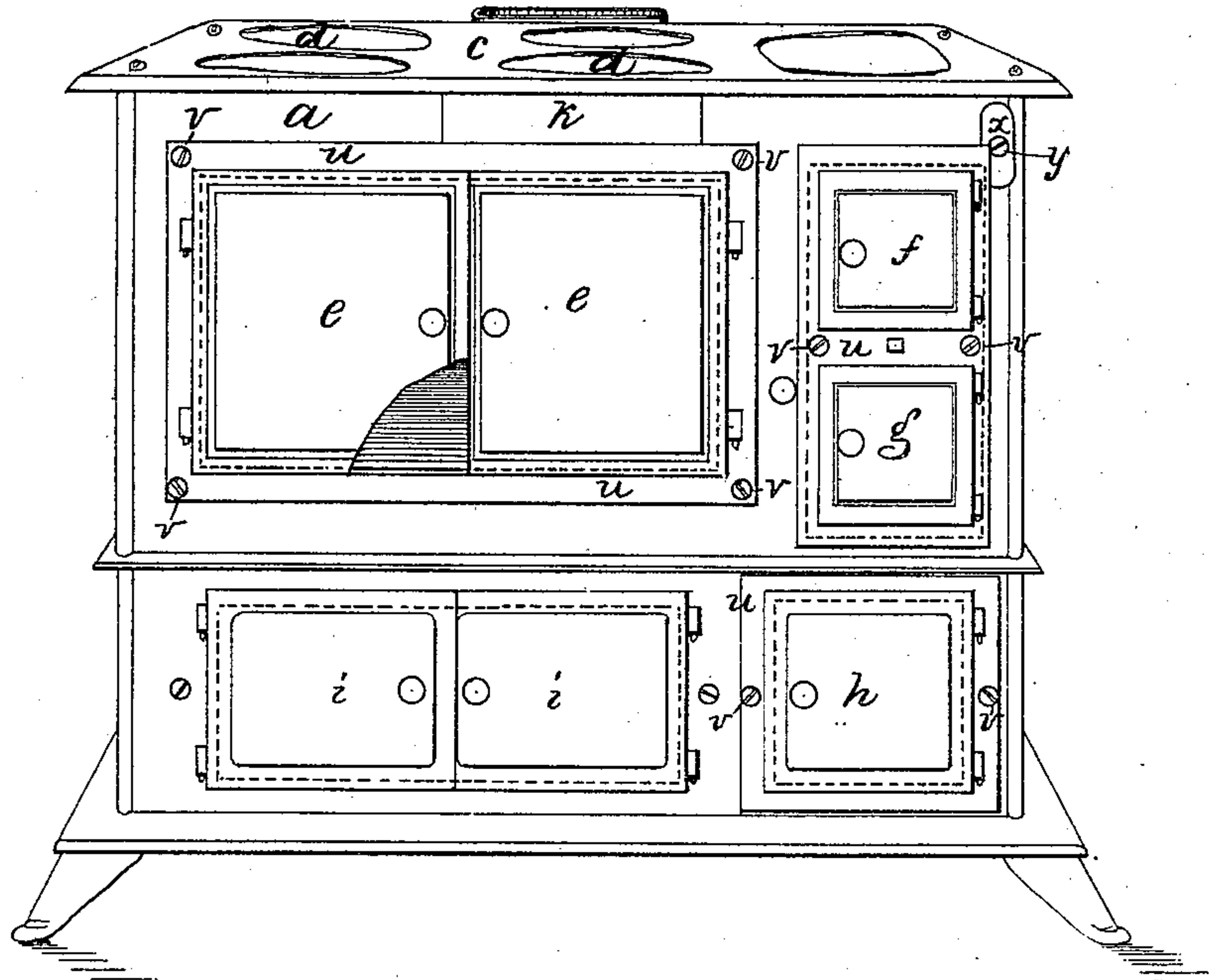
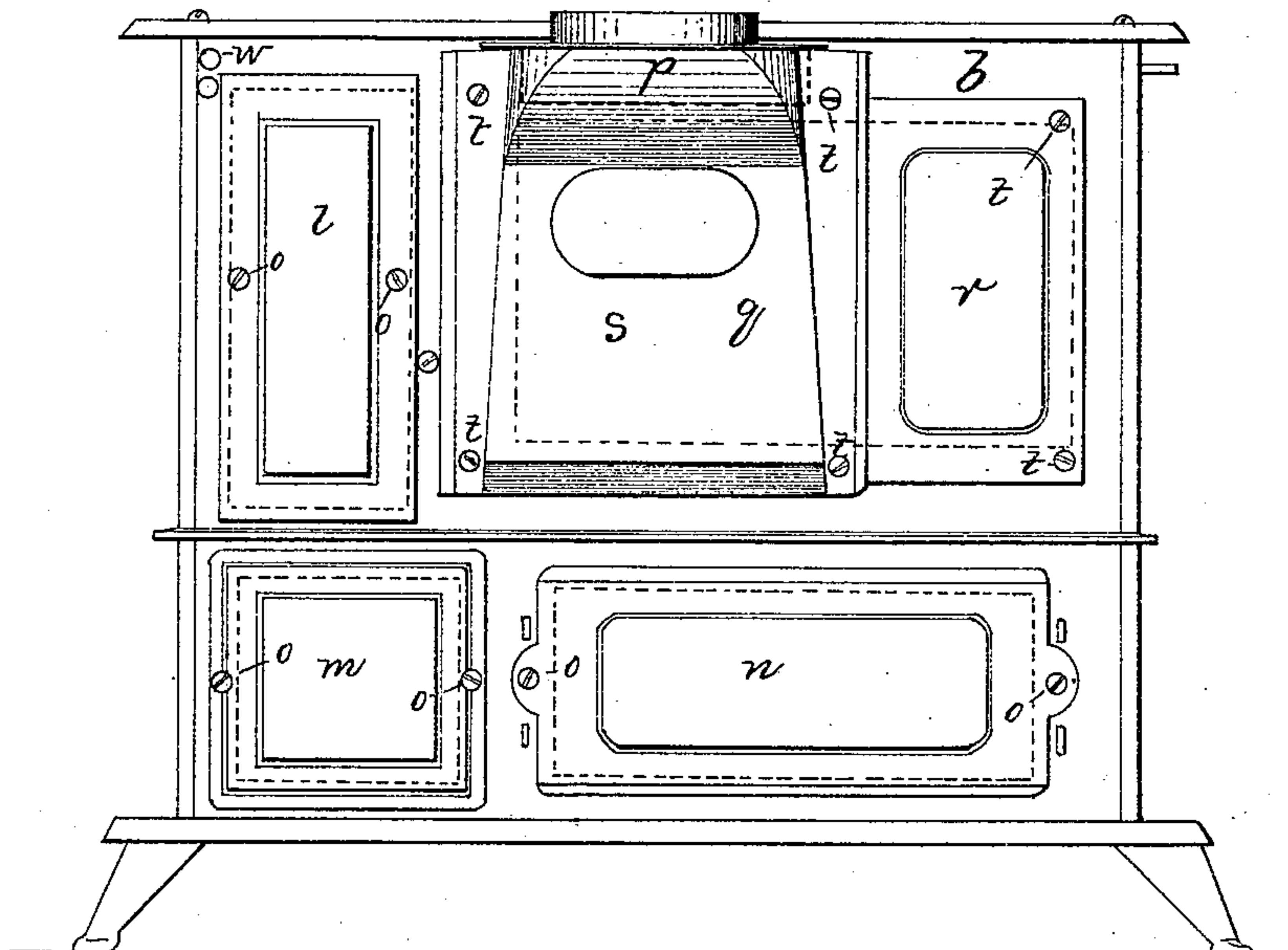


Fig. 2.



Witnesses.

John D. Patten

Geo. T. Smallwood.

Inventor.

George W. White.

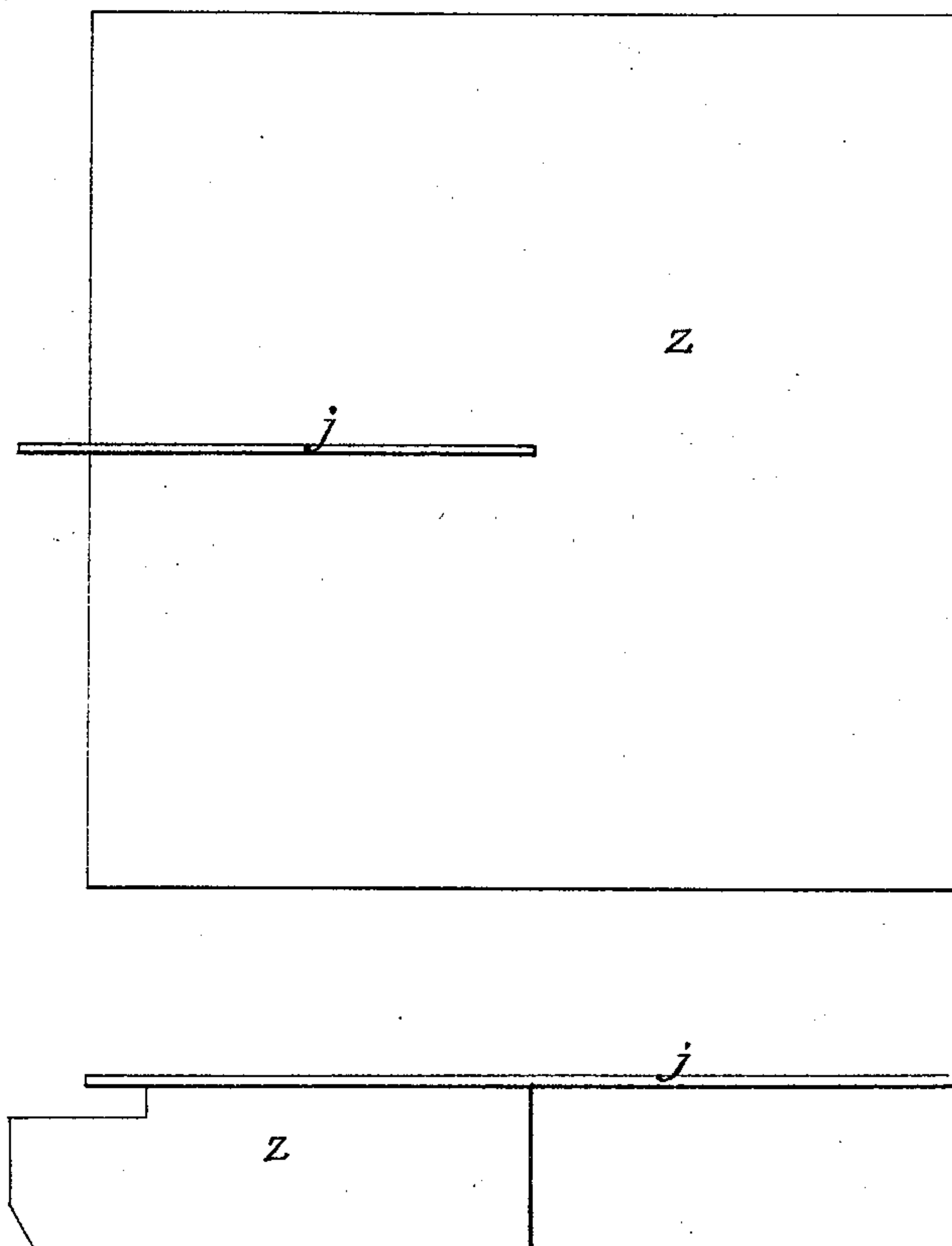
per John J. Halsted.
Atty.

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Fig. 3.



Witnesses
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Inventor.
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per *John J. Halsted.*
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UNITED STATES PATENT OFFICE.

GEORGE W. WHITE, OF MALDEN, MASSACHUSETTS.

IMPROVEMENT IN COOKING-RANGES.

Specification forming part of Letters Patent No. **153,138**, dated July 14, 1874; application filed June 9, 1874.

To all whom it may concern:

Be it known that I, GEORGE W. WHITE, of Malden, in the county of Middlesex and State of Massachusetts, have invented an Improvement in Portable Ranges; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

The invention relates to the construction of portable cooking ranges or stoves, with reference to provision for having the oven and fire-pot doors on either one of the long sides of the stove, as may be rendered most convenient by the position the stove is to occupy in the kitchen.

For this purpose I form each of the upright plates or walls of these sides with a series of openings for the same set of doors, and I apply to either side wall the doors and to the opposite wall removable plates to cover the openings thereof, which plates, by being detached, may be applied to the door-openings of the opposite side of the stove, the doors being removed and applied to cover the openings from which the plates were removed.

My invention consists in the construction thus generally described.

The drawing represents a stove or range formed with a sub-base, and embodying my construction.

Figure 1 shows one side of the range; Fig. 2, the opposite side thereof.

a b denote the opposite upright walls or plates; *c*, the top plate; *d*, the pot-holes; *e e*, the doors of the main oven; *f*, the fire-pot door; *g*, the door of the sifting-chamber beneath the fire-pot; *h*, the sub-ash-pit door; *i i*, the doors of the sub-oven or warm closet, each of these doors covering the proper opening to the space behind it. *k* is a plate covering a flue-opening at the front of the stove. In the wall *b* of the range are openings, denoted by dotted lines, and corresponding to the openings covered by the doors *f*, *g*, *h*, and *i* in the opposite wall *a*, the openings in the plate *b* being, respectively, covered by plates *l m n*, fastened in position by bolts or screws *o*. The wall *b* also has openings *p q*, denoted by dotted lines, corresponding to the oven and flue openings in the

plate *a*, these openings in the plate *b* being covered by plates *r s*, fastened in place by bolts or screws *t*. The plate *r* covers a part of the opening for the oven-door, and the plate *s* (which may be a box) covers the other part of the oven-opening and the whole of a flue-opening formed in the plate *b*, and corresponding to the flue-opening *k* in the plate *a*. Each of the doors is made with a frame, *u*, provided with bolts or screws *v*, which fasten into holes made for their reception in the plate to which the doors are applied, the doors being hinged to the frames, and the holes for reception of the screws or bolts being the exact counterparts in position of holes made in the opposite upright wall for reception of the plate applied thereto.

It will thus be seen that the doors may be readily applied to either side wall, as may be desirable, the cap-plates being applied to close the door-openings of the opposite wall.

w denotes a hot-water pipe, which may be inserted into the fire-pot at either side of the range, suitable openings being made for its reception in each side wall, the openings opposite the ones through which the pipe is inserted being covered by a suitable cap-plate, *x*, fastened in position by a screw or screws, *y*. At the bottom of the oven, and forming the top plate of the flue, as well as the bottom of the oven, is a removable and reversible plate, *z*, having a center partition, *j*, projecting from the bottom of the plate and extending half-way to the front edge of the plate, this partition dividing the flue, so that the smoke and other products of combustion pass first to the front part of the oven on one side, and thence to the rear part of the oven and out through a flue. This plate is seen in bottom view and in side view in Fig. 3. It is made removable, so that in changing the door-plates, &c., to "change front," this oven-plate may be reversed in position to bring the partition to the rear.

Ranges made in this way are more easily repaired, it being only necessary to remove a plate which may be broken and replace it by another plate, instead of being obliged to replace the whole side of the range, as must be done when the side is cast in one piece.

I claim—

1. In combination with a range, a reversible

front, whereby the fire-pot may be brought either on the right side or on the left, as may be desired.

2. The combination, with the range, of the door-openings on each of its two opposite sides, with doors and door-frames to cover one set of door-openings, and cap-plates to cover the openings of the opposite wall, the door-frames and doors and the cap-plates being interchangeable, substantially as shown and described.

3. In combination with the removable and interchangeable door-frames and plates, the hot-water pipe and the detachable cap-plate *x*, applied substantially as shown and described.

GEO. W. WHITE.

Witnesses:

M. W. FROTHINGHAM,
S. B. KIDDER.