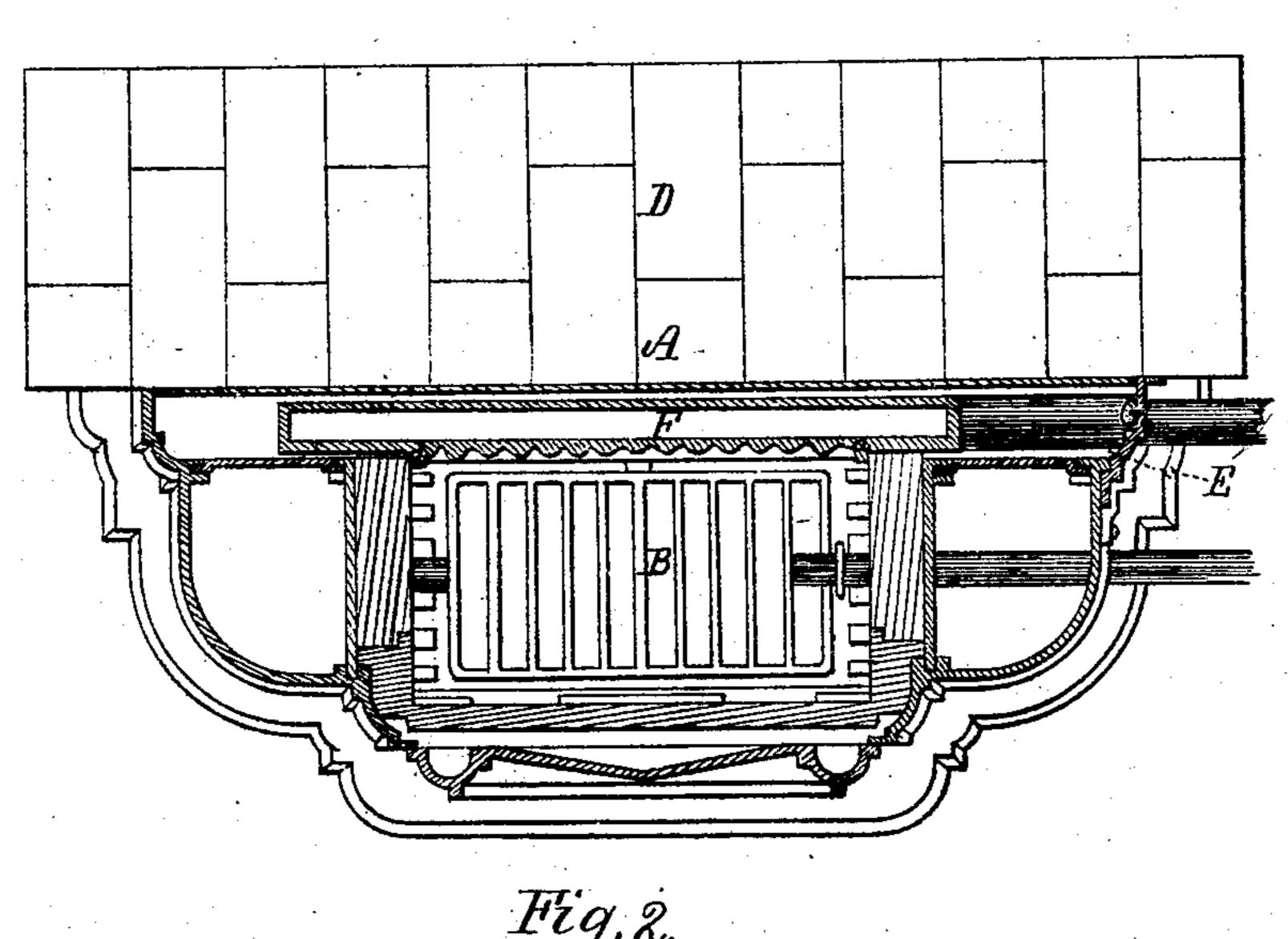
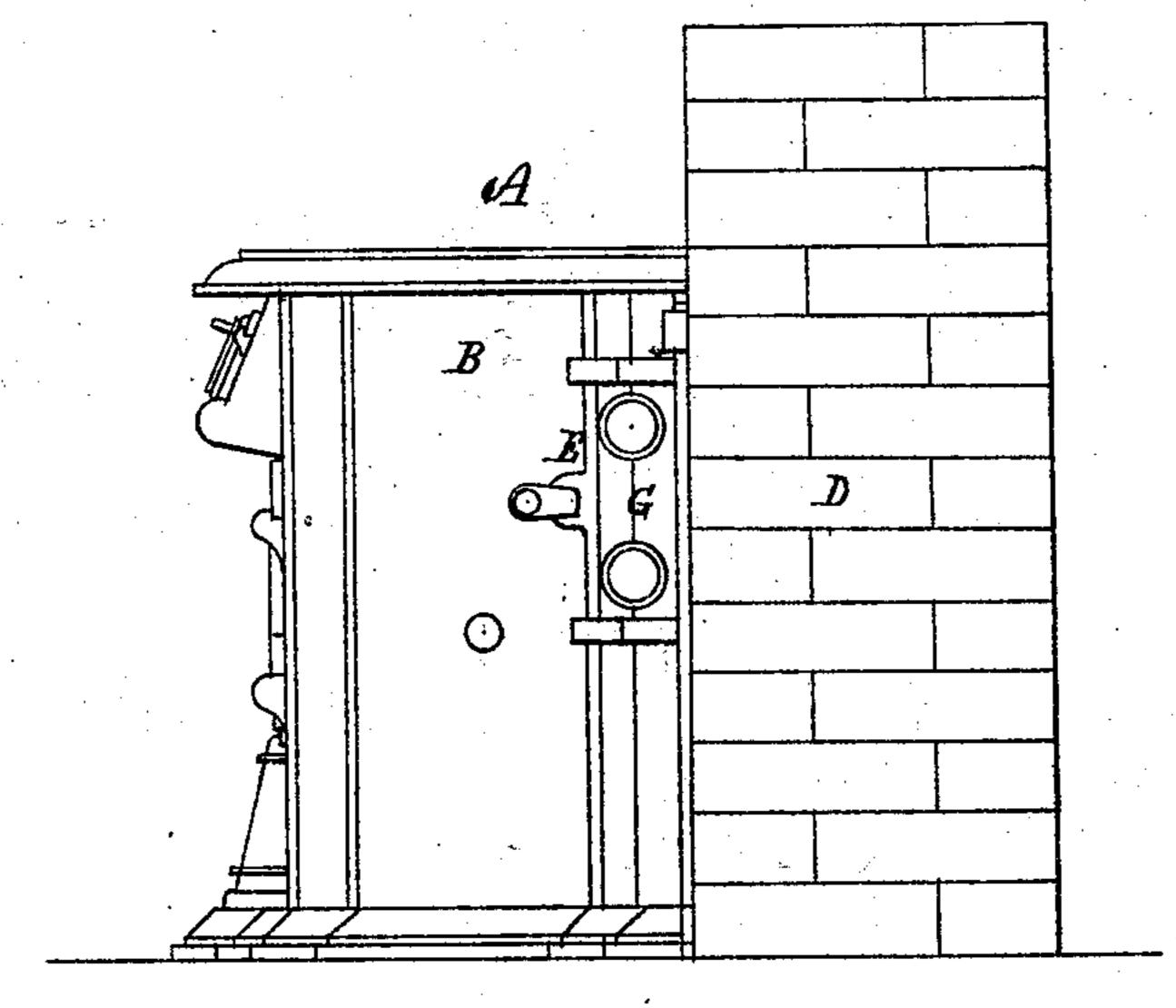
## A. J. BLANCHARD.

Improvement in Water Backs for Stoves.

No. 116,143.

Patented June 20, 1871.





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Abner J. Blanchard. by his Attorney,

## United States Patent Office.

ABNER J. BLANCHARD, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN WATER-BACKS FOR STOVES.

Specification forming part of Letters Patent No. 116,143, dated June 20, 1871.

To all whom it may concern:

Be it known that I, ABNER J. BLANCHARD, of Boston, in the county of Suffolk and Commonwealth of Massachusetts, have made an invention of a new and useful Improvement in Cooking or Heating Stoves, Ranges, &c.; and do hereby declare the following to be a full, clear, and exact description thereof, due reference being had to the accompanying drawing making part of this specification, and in which—

Figure 1 is a horizontal section of the furnace of a cooking-range with the top of the latter removed, Fig. 2 being an end elevation of the same.

This invention relates to such improvements in the construction and setting of cooking-stoves or ranges as will enable me to readily and expeditiously remove the water-back thereof without dismemberment or general disturbance of the structure, the only preliminary step required to effect the removal of such water-back being to detach one end portion of the fire-brick or lining of the furnace which retains the water-back in place.

To carry out the purpose of this invention I create in the end wall of the stove or range an orifice of sufficiently large area to receive the water-back, which is passed through it and into the furnace, and which constitutes the rear lining of the latter, the orifice being covered and its presence disguised by an outlying plate, whose exterior forms part of and is a continuation of the end of the range.

The accompanying drawing represents at A the general structure of a cooking-range of ordinary production, the furnace thereof being shown at B and the brick-work in part at D.

In carrying my improvement into practice I create in one end wall of the structure or shell A a vertical rectangular orifice or door-way, E, of a size sufficient to easily receive the water-back, which is shown at F, and which is passed through the orifice and into the furnace. G in the accompanying drawing represents a plate or door which covers and hides the orifice E, the pipes or branches of the water-back extending through holes made in said door. The front face of the water-back is provided with a nib or projection, a, at each end, against which the adjacent end lining of the furnace abuts and secures it in proper place.

When it becomes desirable, whether for purposes of repair, renewal, or inspection, to detach the water-back from the range, the door G and the adjacent end lining of the furnace are removed, in which case the water-back may be at once withdrawn through the doorway E and as expeditiously returned.

The advantages of my invention are self-apparent and require no extended notice.

Claim.

I claim—

The combination, with a cooking or heating stove or range, of a water-back, when said parts are constructed and arranged, substantially as herein shown and described, to permit the water-back to be readily withdrawn from and inserted in said stove or range.

ABNER J. BLANCHARD.

Witnesses:

FRED. CURTIS, EDW. GRIFFITH.