

P. ROLLHAUS, Jr.
Improvement in Ranges.

Patented June 6, 1871.

No. 115,642.

Fig. 1.

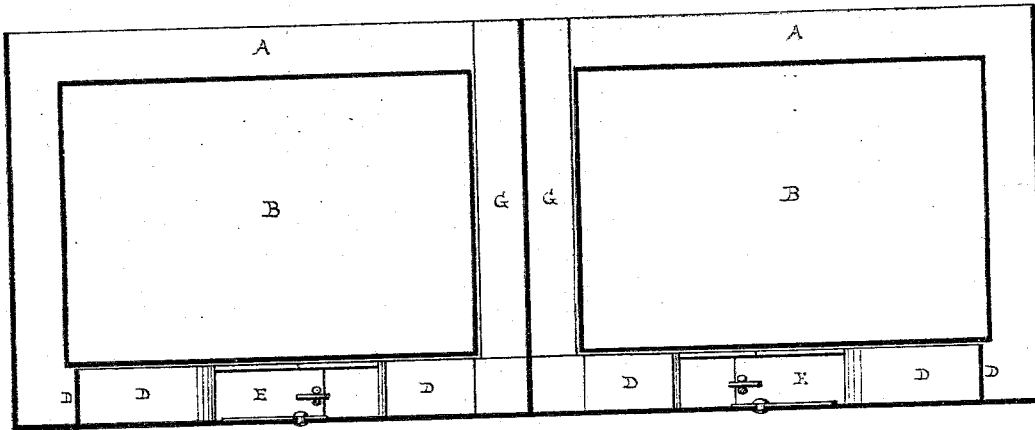


Fig. 2.

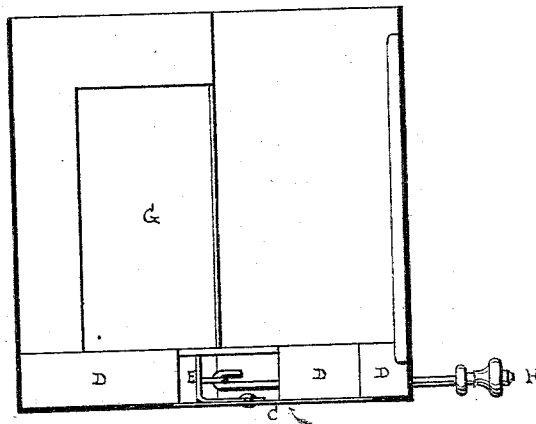
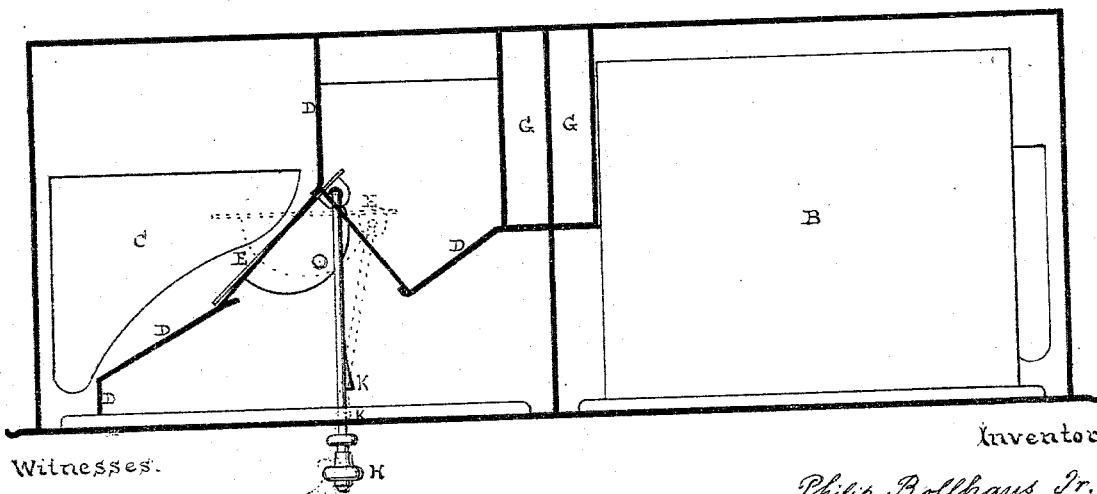


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

PHILIP ROLLHAUS, JR., OF NEW YORK, N. Y.

IMPROVEMENT IN RANGES.

Specification forming part of Letters Patent No. 115,642, dated June 6, 1871.

I, PHILIP ROLLHAUS, Jr., of New York city, in the county of New York and State of New York, have invented certain Improvements in Circulating the Heat in Elevated Oven-Ranges, of which the following is a specification:

The object of my invention is to regulate with great facility and nicety the circulation of heat in elevated oven-ranges so that all the heat, or part thereof, may be caused either to envelop and circulate around the sides, tops, backs, and bottoms of both or one oven in the same range, or only to radiate partly under the bottoms of both or one oven in the same range, as required and desired.

Figure I is a longitudinal section, front view, of an elevated oven-range embodying my invention. Fig. II is a section, side view, of Fig. I. Fig. III is a top view of the same.

A is the frame of an elevated oven-range. B B are the ovens; C C, the inlets for the heat. D D are flue partitions or walls shutting off the direct draft of the smoke-flues. E E are smoke-dampers; G G, smoke-flues communicating with the chimney; H H, handles for the dampers; K K, regulating projections on the damper-handles.

The heat entering through the inlets C C will—if the dampers E E are shut by pushing in the handles H H so far as they will go, or if in their place a continuous flue partition or wall is used by the direction of the draft to the smoke-flues G G—be caused to circulate around and envelop the sides, tops, backs, and bottoms of the ovens B B. If only a part of the heat entering through the inlets C C is required to circulate around and envelop the ovens B B, as described, the smoke-dampers E E are pulled out by aid of the handles H H so far that the regulating projections K K

strike against the frame A; a part of the heat will then, consequently, go direct to the smoke-flues G G and the temperature of the ovens be reduced. Should it be found further necessary to cool off and lower the temperature of the ovens B B by preventing any heat to circulate around the same, the damper-handles H H are still further pulled out, so far as they will go, by which act the dampers E E will shut off entirely the draft from the inlets C C to the smoke-flues G G, thereby causing the heat only to radiate against a part of the bottom of the ovens, and take its course to a flue provided for the same, under the range, direct to the chimney. It is evident that the heat will either circulate around and envelop both ovens or only one, as desired, by operating one or both dampers, as described.

It will easily be understood that by this arrangement a most perfect control over the heat circulating around and enveloping the ovens can be obtained, and that each smoke-damper, by the three movements described, shutting off partly or altogether the ports of the flue-partitions, saves another damper, at present necessary to accomplish the same object.

Claim.

I desire to claim as my invention—

The flue partitions or walls D D and the smoke-dampers E E, in combination with the heat-inlets C C, the smoke-flues G G, and the ovens B B in the frame A, substantially as and for the purpose hereinbefore set forth and described.

PHILIP ROLLHAUS, JR.

Witnesses:

A. C. CRONDAL,
JOHN DUYER.