

A. B. NOTT.
Detachable Oven.

No. 48,200.

Patented June 13, 1865.

FIG. 2.

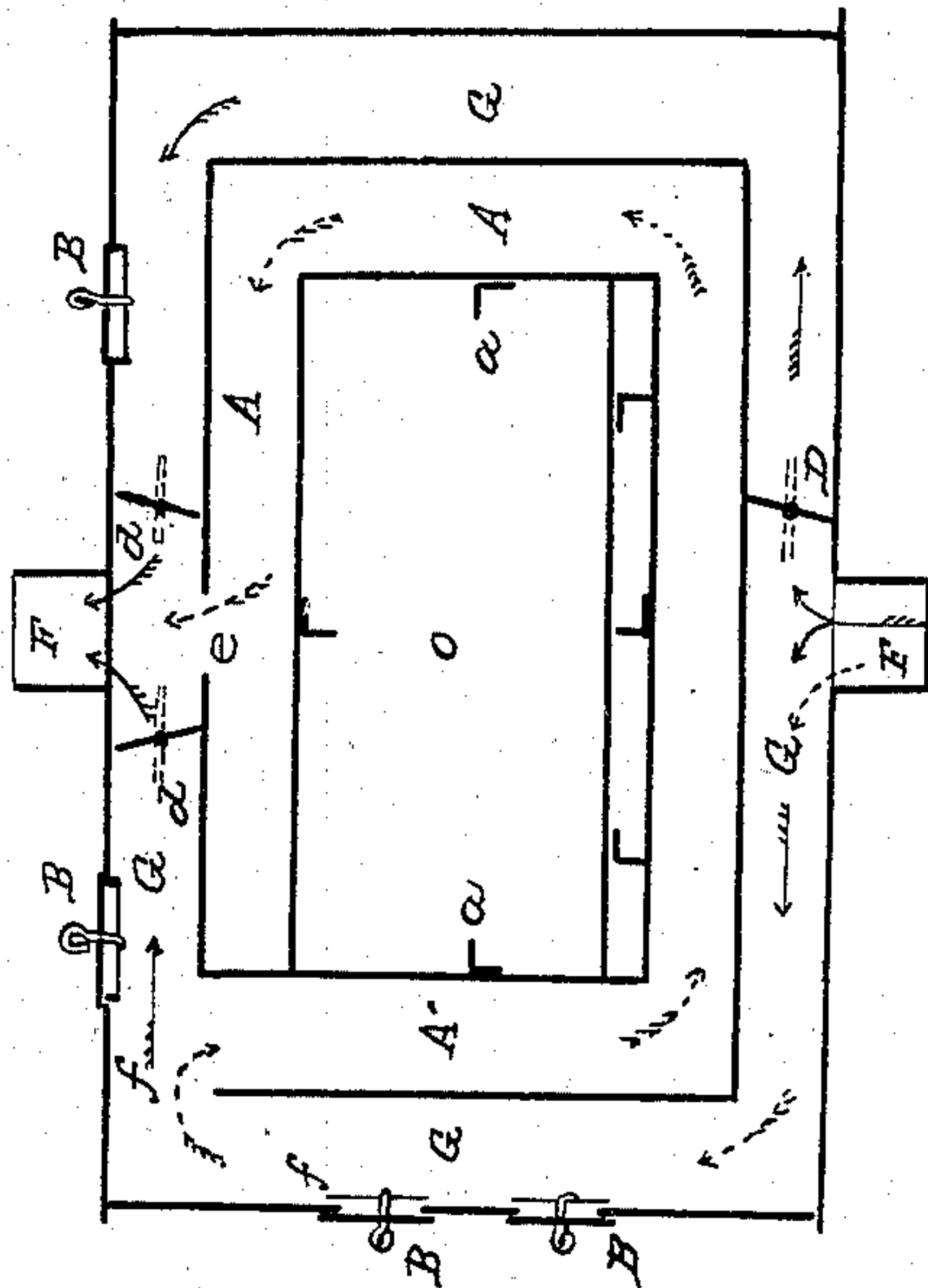
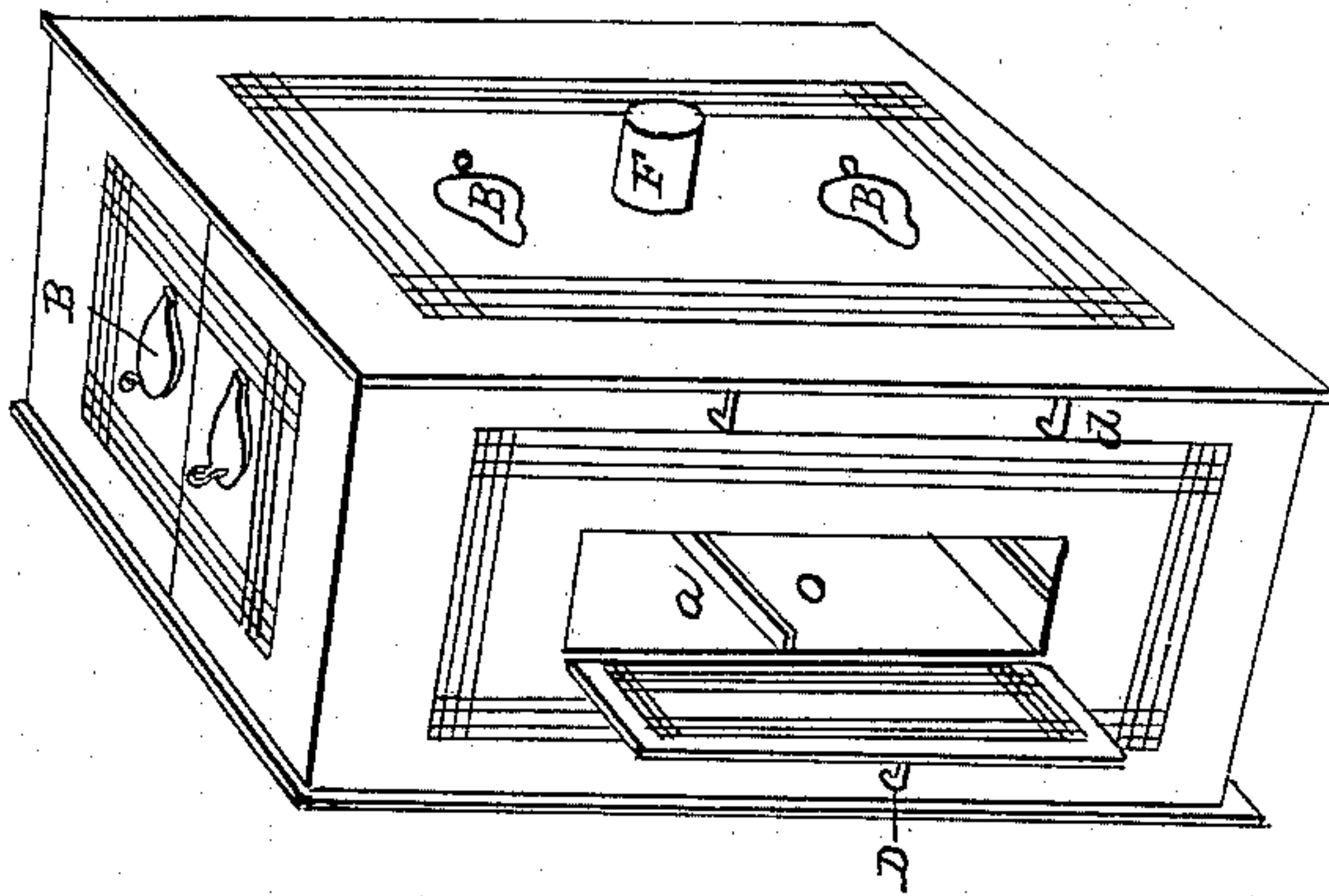


FIG. 1.



WITNESSES:

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IMPROVEMENT IN DETACHABLE OVENS.

Specification forming part of Letters Patent No. 48,200, dated June 13, 1865.

To all whom it may concern:

Be it known that I, AARON B. NOTT, of Fairhaven, in the county of Bristol and State of Massachusetts, have invented a new Improved Detached Oven, which can be attached to any stove now in use; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and letters marked thereon, making a part of the specification.

Figure 1 is a perspective view of the oven. Fig. 2 shows the inside form of the oven and the principle of the draft.

This detached oven can be made either of sheet or cast iron, and is so constructed that it can be attached to the top or back part of any cook, air-tight, or lamp stove by means of either round or oval flues, thereby connecting the oven to the stove and pipe, which permits the heat and smoke of the stove to pass round the draft of the oven one and one-half time before entering the stove-pipe, and without incurring any extra expense for fuel.

To support the oven on any stove, movable jointed legs can be used adapting it to any height.

The boiler holes and flues have covers which are made to slide or swing round and fit close, so as to permit of their being used whether the oven is attached to the top or back part of a stove.

The oven or baking-chamber (shown at O in the drawings) is provided with a door, D, and has affixed to the middle of each side of its interior surface a ledge, *a*, for supporting a shelf or plate. Furthermore, the oven is surrounded on its four sides by a flue, A, which at one end opens into another flue, G, that encompasses the first flue, A. The flue G has a pipe, F, leading out of the middle of its bottom, and it also has another such pipe, F', leading from the middle of its top, the same being as exhibited in Fig. 2. In the lower part of the flue G there is one damper, D, and in the upper part of such flue there are two other dampers, *d d*, which are arranged relatively to the upper pipe, F', and a hole or passage, *e*, in manner as represented in the said Fig. 2. The said hole or passage *e* opens out of the flue A. By closing the dampers D *d d* the smoke and vol-

atile heated products of combustion, when the oven is in connection with a stove, will take the course through the flues as indicated by the red arrows in Fig. 2. By opening all the dampers, however, the smoke will only pass through the flue G, as shown by the black arrows, without going in contact with the oven. By my arrangement, therefore, of dampers and flues I am enabled, by throwing the smoke through the external flue only, to utilize most of its heat for heating the apartment in which the oven may be situated. I can also cause the smoke to pass through both the flues, and thus while warming the apartment heat the oven sufficiently for baking purposes. Furthermore, when the smoke goes through the outer flue only, the inner flue serves to insulate the heat thereof from the oven to such extent as not only to prevent its sides from being injured thereby, but to cause them to be only moderately heated, whereby the oven may be used as a simple warming-chamber.

There are boiler-openings *fff* in one end and one side of the outer case of the flues, the covers of these openings being shown at B B B B in Figs. 1 and 2. These, with the ledges *a a a a*, applied to the four sides of the oven, are to enable a shelf to be arranged in the middle of the oven and one or two of the boilers to be heated, whether the oven be used with its longer sides either horizontal or vertical, as circumstances may require.

I claim—

1. The combination and arrangement of the oven O, the two flues A G, the induction and eduction pipes F F', the opening *e*, and the dampers D *d d*, the whole being substantially as specified.

2. In connection with the oven and its flues, arranged as described, the four ledges *a a a a*, arranged and applied to the four sides of the interior of the oven.

3. In connection with the oven and its flues, arranged as described, the boiler-openings *ff* applied to one end and one side of the outer flue-case, for the purpose specified.

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Witnesses:

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