

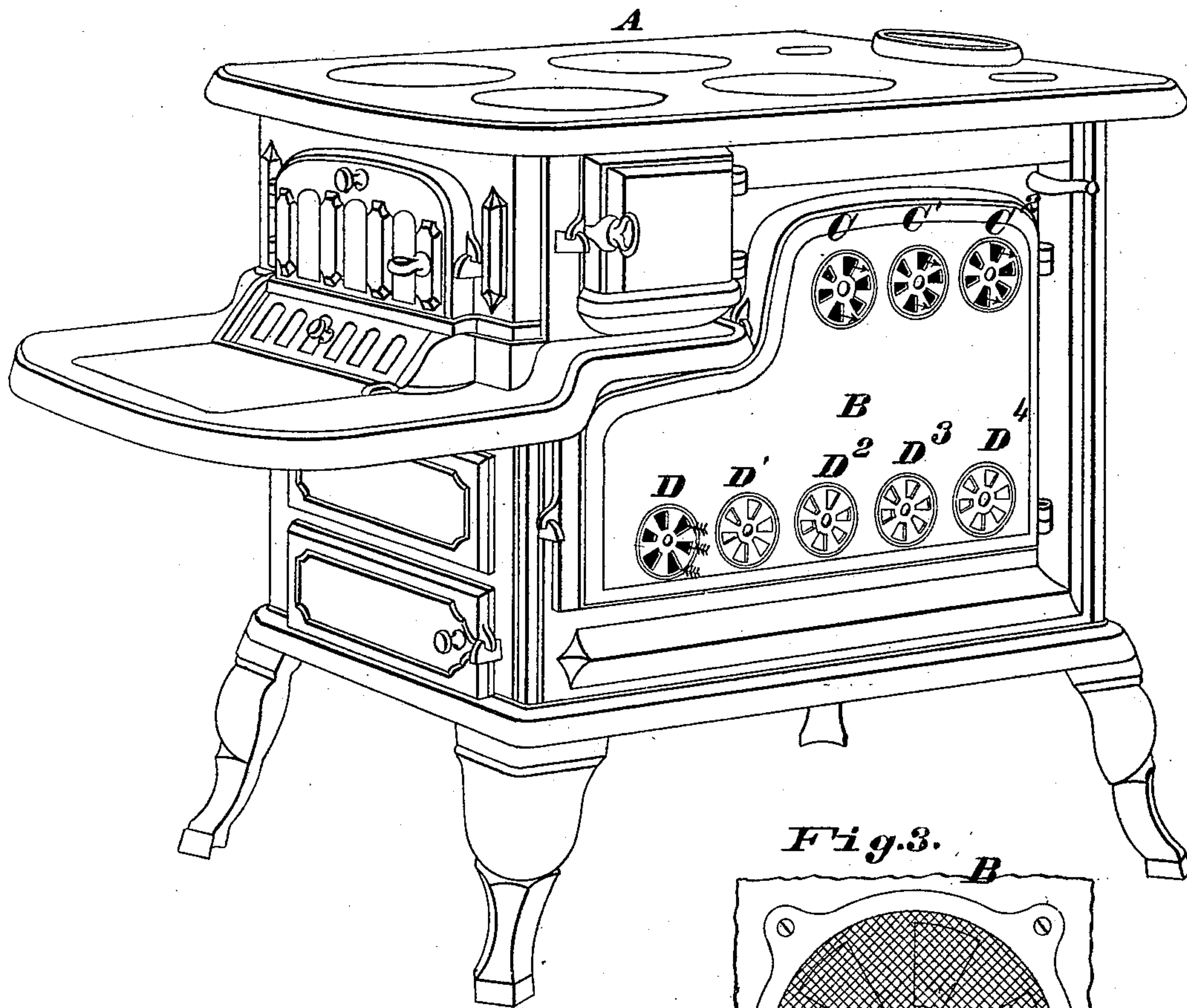
(No Model.)

G. F. FILLEY.  
DOOR FOR STOVE OVENS.

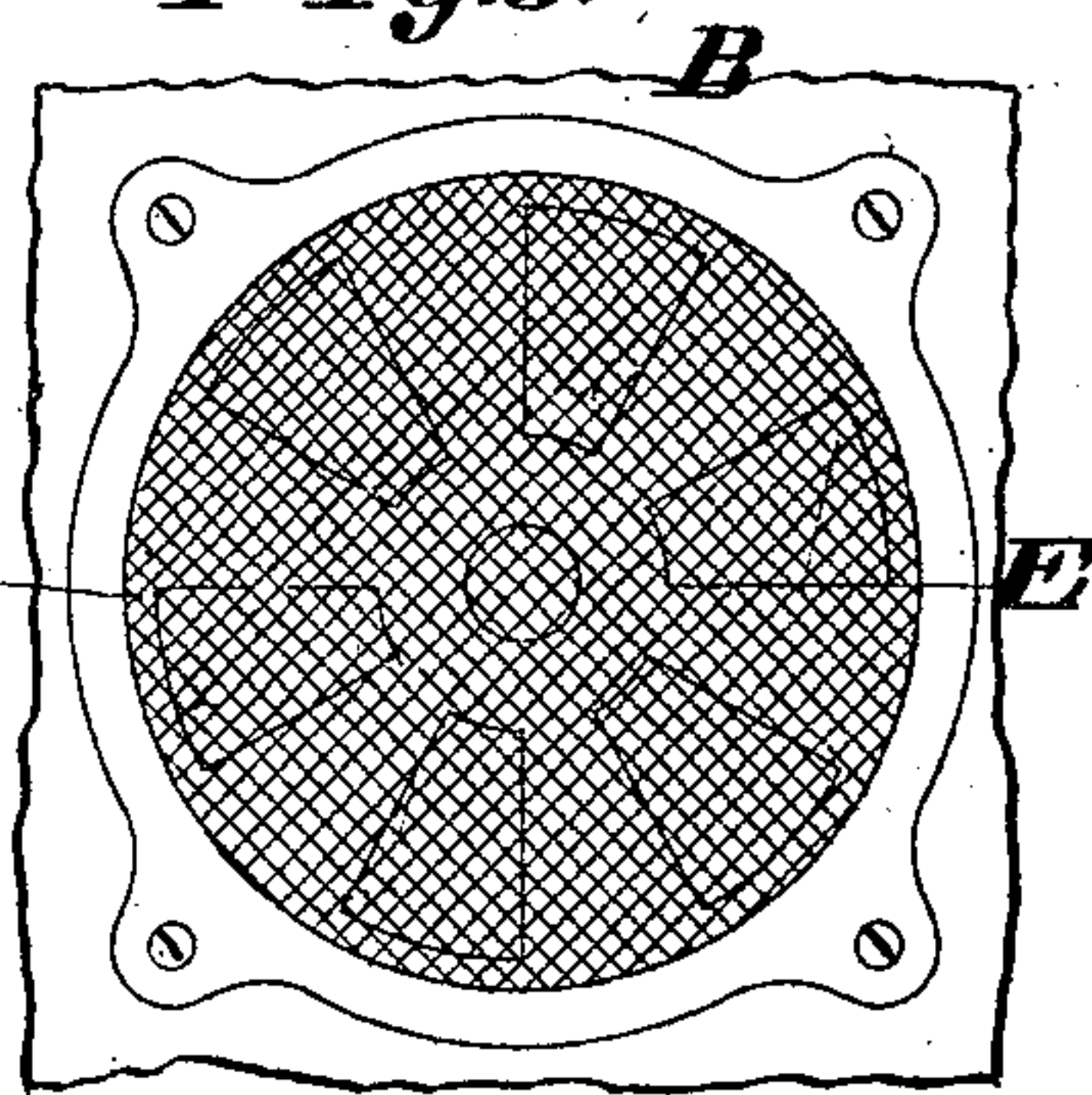
No. 246,607.

Patented Sept. 6, 1881.

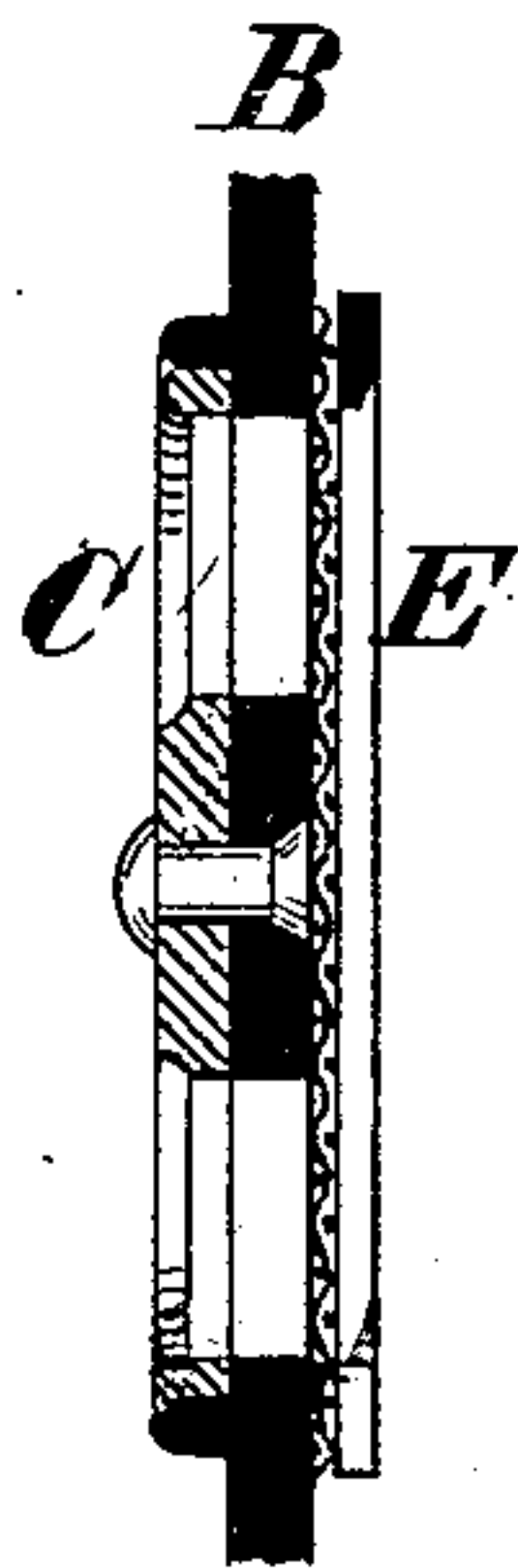
*Fig. 1.*



*Fig. 3.*



*Fig. 2.*



*Attest:*  
*Charles Pickles*  
*Notary U. Sapp*

*Inventor:*  
*Giles F. Filley.*  
*by C. D. Moody*  
*att'y*



# UNITED STATES PATENT OFFICE.

GILES F. FILLEY, OF ST. LOUIS, MISSOURI.

## DOOR FOR STOVE-OVENS.

SPECIFICATION forming part of Letters Patent No. 246,607, dated September 6, 1881.

Application filed December 6, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, GILES F. FILLEY, of St. Louis, Missouri, have made a new and useful Improvement in Doors for Cooking Stove and Range Ovens, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a view in perspective of a stove having the improvement; Fig. 2, a detail, being a sectional view upon an enlarged scale, taken through one of the registers; and Fig. 3, a detail, being an elevation from the inner side of a portion of the oven-door having one of the registers.

The same letters denote the same parts.

I have heretofore made an improvement in cooking stoves and ranges enabling the outer air to pass directly and freely into and through out the oven during the cooking. The improvement referred to consists in providing the oven door or doors with wire-gauze or finely-perforated metal, thereby furnishing many small openings through which the air can enter and leave the oven during the cooking.

It is sometimes desirable to be able to close a portion or all of the openings in the oven door or doors, according to the character, quantity, or position in the oven of the articles being cooked, or when it is desired to increase the heat in the oven. To provide for this is the aim of the present improvement, which consists in furnishing the oven door or doors with a series of registers, a portion of the series being in the upper part of the door or doors and a portion in the lower part of the door or doors, as in the annexed drawings, where—

A represents a cooking-stove of the ordinary construction, saving as modified by the present improvement.

B represents the oven-door. In the upper part of it is a series of registers, C C' C<sup>2</sup>, and in the lower part of it a series of registers, D D' D<sup>2</sup> D<sup>3</sup>. The air enters the oven through the lower registers and leaves the oven through the upper registers.

In the drawings some of the registers are

shown closed, the air entering, in the case in question, through the register D and escaping through the registers C C' C<sup>2</sup>, confining the air-circulation more especially to that part of the oven immediately in the line of the opened registers. In this way the heat in any particular portion of the oven can be tempered at will and to suit the peculiar character of the stove or range having the improvement, as well as the nature or position of the article being cooked, it being well known that in most cooking stoves and ranges the oven is unevenly heated, and to correct this defect the registers C D can be opened or closed accordingly—that is, if the oven is too hot in front, air can be admitted at that point. The registers are preferably of the circular form shown.

If desired, finely-perforated metal—such as wire-gauze E—may be attached to the oven door or doors at the register-openings.

I am aware that oven-doors have had registers in the upper and lower parts of the door; but the ovens referred to had diaphragms or shelves between the upper and lower registers, extending horizontally throughout the principal portion of the oven. Such a construction would interfere with my present purpose, and I disclaim it.

I claim—

1. A cooking stove or range oven having one or both doors provided with a register or registers arranged in the upper part of the door or doors, and with a register or registers arranged in the lower part of the door or doors, and without a diaphragm arranged horizontally in the oven between the upper and lower registers and extending throughout the principal portion of the oven, substantially as described.

2. A cooking stove or range oven door having series of registers C C' C<sup>2</sup> D D' D<sup>2</sup>, the openings at said registers having the gauze E, substantially as described.

GILES F. FILLEY.

Witnesses:

C. D. MOODY,  
CHARLES PICKLES.