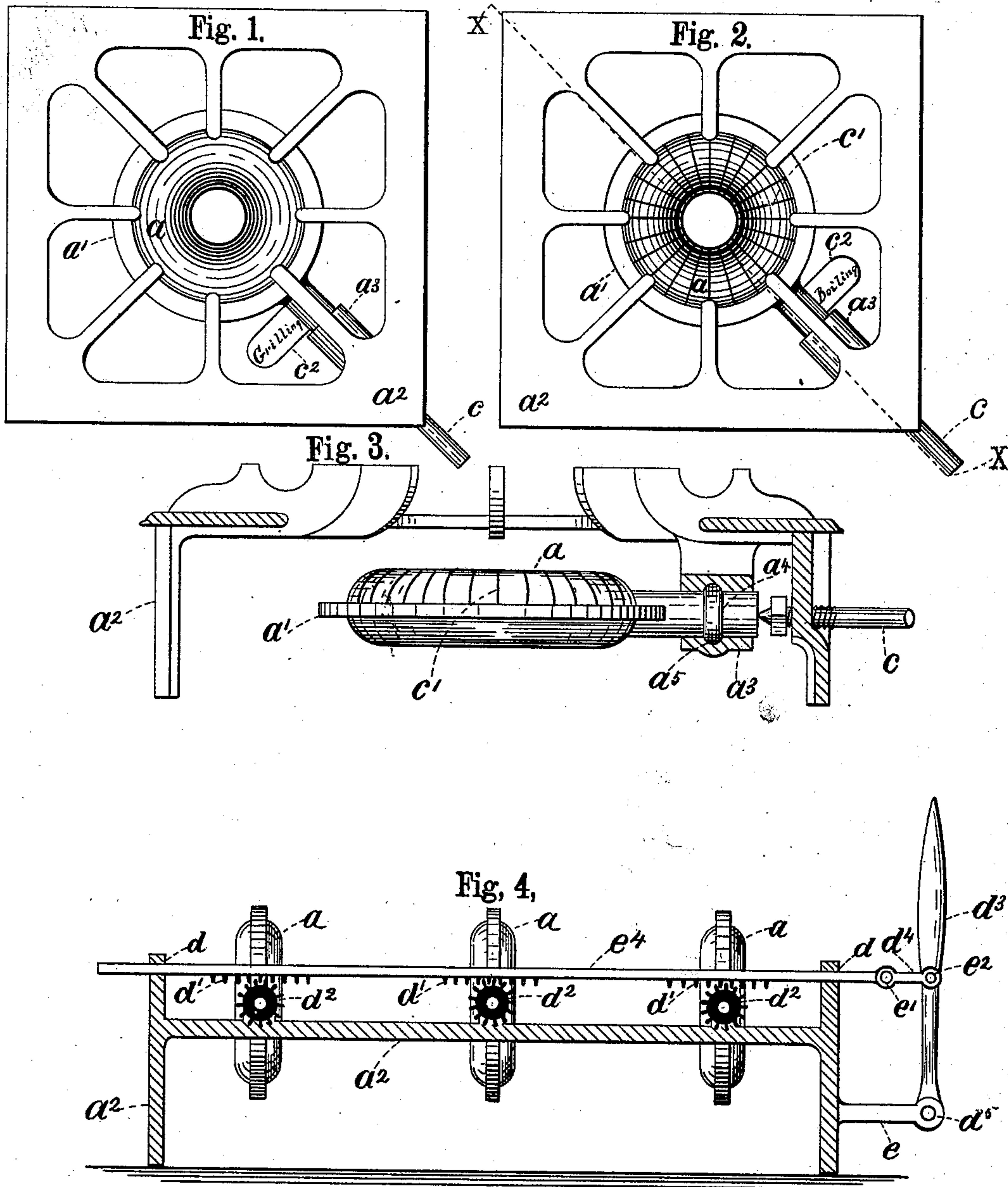


(No Model.)

T. FLETCHER.  
GAS STOVE.

No. 322,592.

Patented July 21, 1885.



Witnesses.

Jennie H. Caldwell.  
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Thomas Fletcher,  
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Att'y.



# UNITED STATES PATENT OFFICE.

THOMAS FLETCHER, OF WARRINGTON, COUNTY OF LANCASTER, ENGLAND.

## GAS-STOVE.

SPECIFICATION forming part of Letters Patent No. 322,592, dated July 21, 1885.

Application filed May 15, 1884. (No model.) Patented in England September 6, 1883, No. 4,284.

*To all whom it may concern:*

Be it known that I, THOMAS FLETCHER, of Warrington, in the county of Lancaster and Kingdom of Great Britain, have invented  
5 certain new and useful Improvements in Gas-Burners for Boiling, Grilling, Toasting, &c., of which the following is a specification.

This invention relates to certain improvements in gas-burners for boiling, grilling, 10 toasting, and other similar purposes; and it has for its object to allow the burner to be reversed for boiling or toasting without the necessity of lifting the hot griddle or disturbing the cooking-vessels resting thereon, and  
15 so avoiding risk of burns or other annoyances, all of which will be fully and clearly herein-after shown by reference to the accompanying drawings, in which—

Figure 1 is a top view showing the burner  
20 in position for toasting, grilling or other similar purposes. Fig. 2 is also a top view showing the burner turned over and in position for boiling or other like uses. Fig. 3 is a section through the table and supports for the  
25 burner in line X X, Fig. 2, showing also a side elevation of the burner in position; and Fig. 4 represents a sectional elevation showing a series of burners connected together by a rack and a series of pinions, so as to operate  
30 all at once.

The burner *a* may have a flange or deflector-plate, *a'*, cast upon or fixed to the body of the same, or the flange may be fixed and the burner constructed to rotate alone. I prefer  
35 to use a burner substantially as shown; but any other suitable burner may be used. It is mounted on a table, *a*<sup>2</sup>, in suitable bearings, *a*<sup>3</sup>. A groove, *a*<sup>4</sup>, and a pin or ring, *a*<sup>5</sup>, (or other well-known means,) is employed to keep the  
40 burner from being drawn forward out of its bearings. It is provided with the usual nozzle, *c*, through which the gas flows to the burner, and *c'* represents the openings or slits from which the flame issues. The burner is  
45 arranged so as to turn or have half of a revolution each way by means of the projecting piece *c*<sup>2</sup>.

It is well known that when the burner is in the position shown in Fig. 2 the heat from the

flame is too intense for toasting or other like 50 purposes, and is liable to scorch or burn, but is well adapted for boiling or other similar uses.

When used for toasting or other equivalent purposes, all that is necessary to do is to turn 55 or reverse the burner, so as to bring the bottom to the top and the frame below.

The burner is turned by means of the projecting piece *c*<sup>2</sup> and a rod or other equivalent means. 60

Instead of the piece *c*<sup>2</sup>, at one end of the burner may be attached a lever or pinion gearing into a rack, by the action of which the burner may have a half-revolution imparted to it, so as to reverse the position of 65 the flame from above to below, or the reverse. Any other equivalent device may be employed for reversing the burner, and it may be so arranged by any well-known rack-and-pinion movement connecting a series of burners so 70 that the whole series may be turned or reversed simultaneously—for instance, the rack-and-pinion movement shown in Fig. 4, in which *e*<sup>4</sup> represents the rack-bar mounted in projections *d* in the frame, so as to be easily 75 moved back and forth by means of the connection *d*<sup>4</sup>, connected by joints *e'* *e*<sup>2</sup> to the lever *d*<sup>3</sup>, which is jointed by a joint or pin, *d*<sup>5</sup>, to the bracket *e'* on the frame *a*<sup>2</sup>. The racks *d*<sup>4</sup> gear into the pinions *d*<sup>2</sup>. It will thus be 80 seen that a movement of the arm *d*<sup>3</sup> will operate all the burners at once.

I claim as my invention—

1. A gas-burner mounted in a suitable bearing, *a*<sup>3</sup>, on the table *a*<sup>2</sup>, and adapted to be re- 85 versed, substantially as and for the purposes described.

2. The combination of a gas-burner mounted in a bearing, *a*<sup>3</sup>, and provided with a projecting piece or handle, *c*<sup>2</sup>, so as to be easily reversed, 90 and a suitable table for supporting it, as and for the purposes specified.

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Witnesses:

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