

No. 825,351

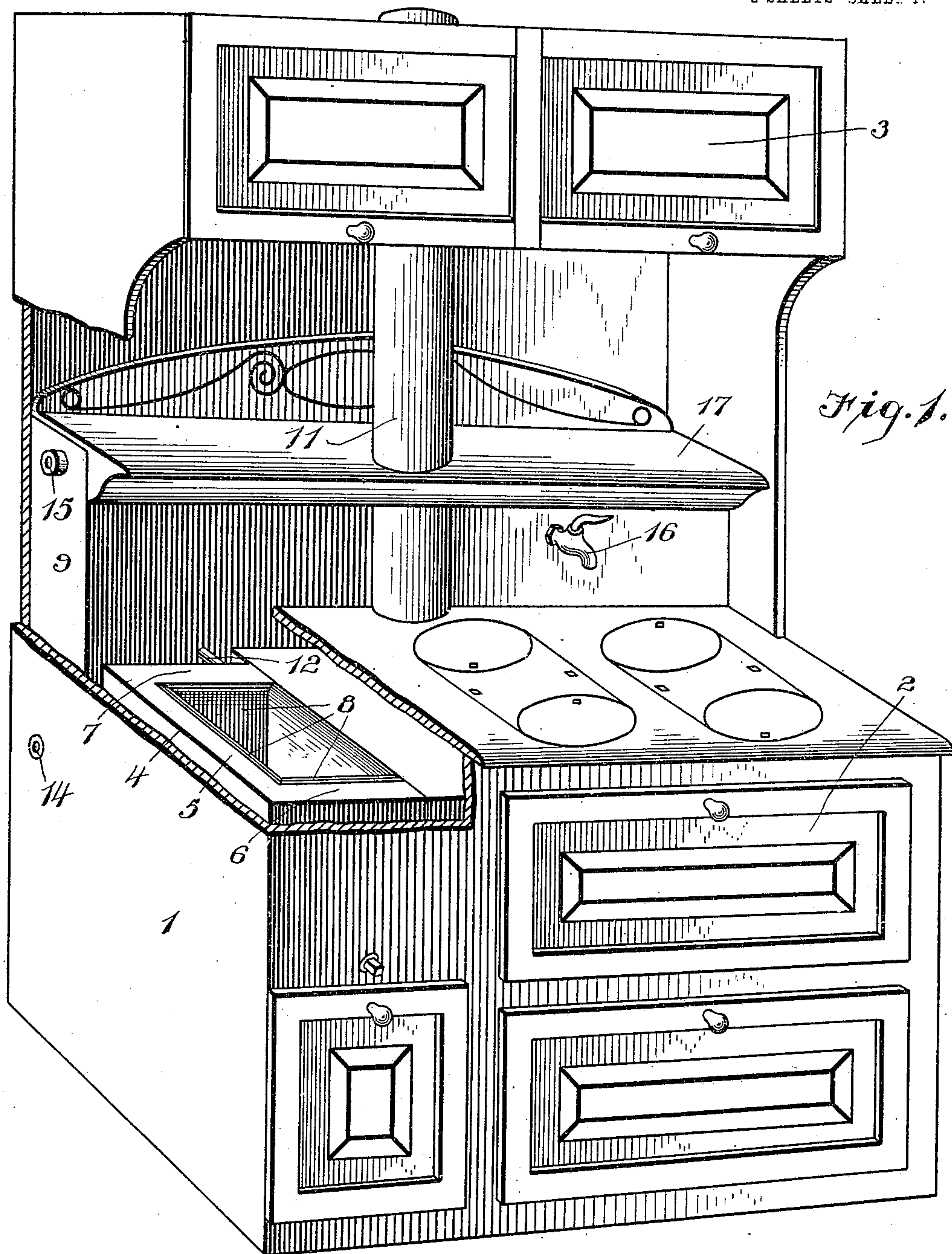
PATENTED JULY 10, 1906.

T. T. ROCKETT.

RANGE.

APPLICATION FILED DEC. 19, 1904.

2 SHEETS—SHEET 1.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 2.

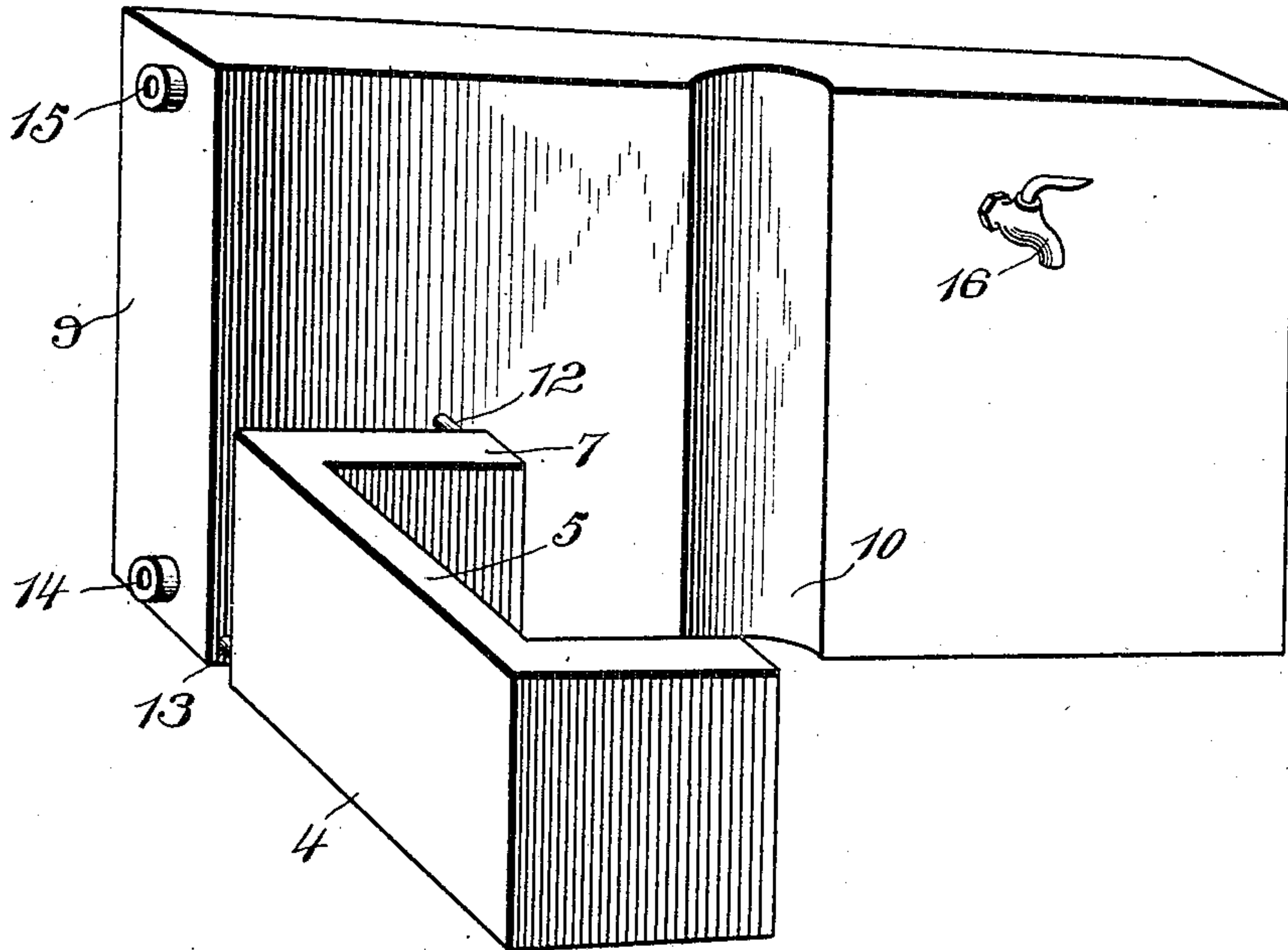


Fig. 3.

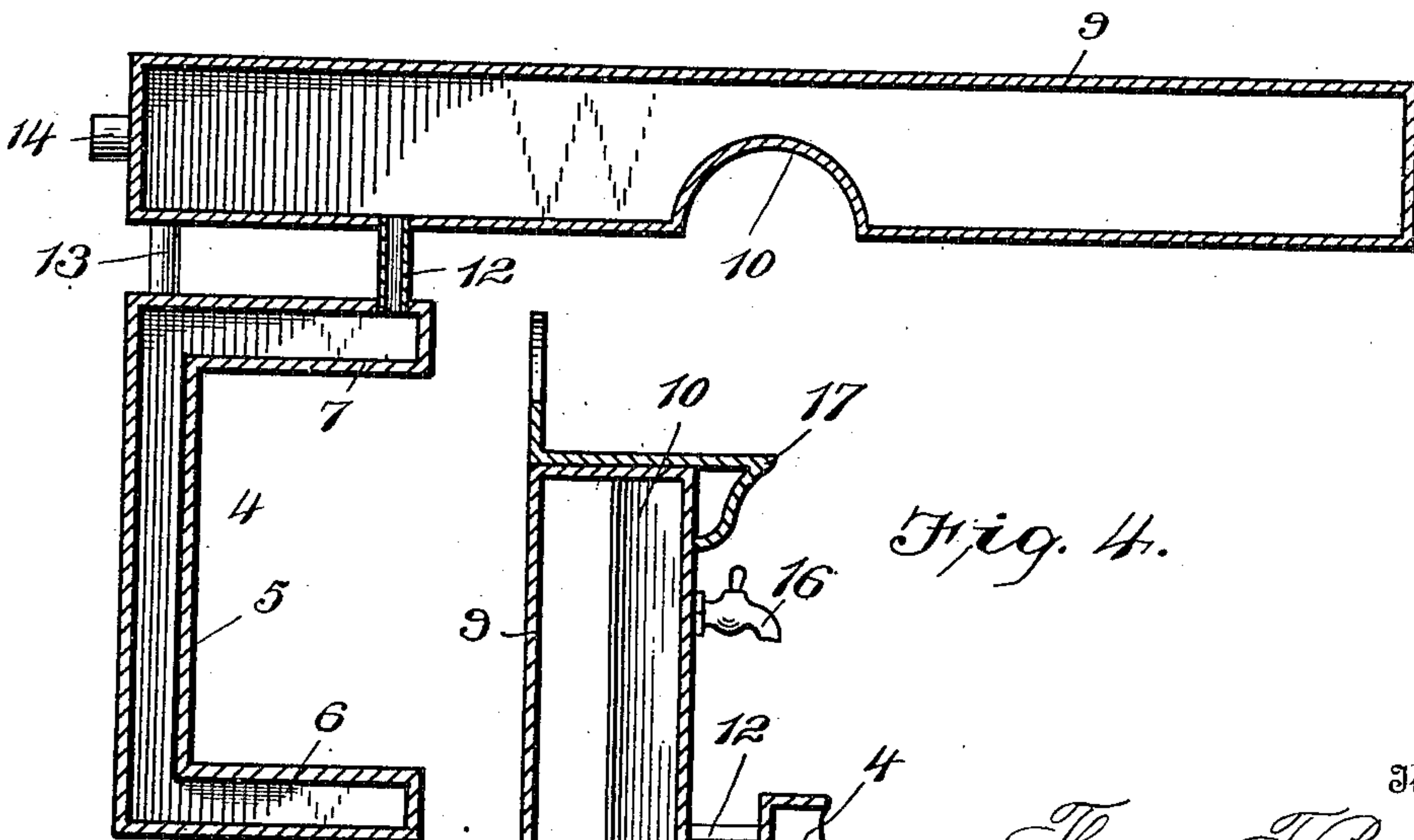


Fig. 4.

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UNITED STATES PATENT OFFICE.

THOMAS T. ROCKETT, OF PHILADELPHIA, PENNSYLVANIA.

RANGE.

No. 825,351.

Specification of Letters Patent.

Patented July 10, 1906.

Application filed December 19, 1904. Serial No. 237,596.

To all whom it may concern:

Be it known that I, THOMAS T. ROCKETT, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Ranges; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to domestic ranges and water-heaters or boilers therefor, and has for its object to provide a heater which will take up very little space and wherein the boiler is so arranged to conform to the design of the range as to also form a shelf for heating dishes, &c., thus doing away with the usual shelf, and which provides a water-heater which takes the heat from the escape-flues as well as from the top of the range.

A further object of my invention is to utilize nearly all the heat taken up and wasted by the heretofore fire-brick lining and to provide a water fire-box lining such as can be readily removed by means of simple union connections, said water fire-box lining being connected with the heater or boiler in such manner that a circulation of the water in the fire-box lining and heater or boiler is established, the water passing readily from one to the other, thus avoiding the danger of explosion and the constant sedimentary deposits of mud and other foreign substances usual when there is no circulation, thus uniting for a general purpose the water fire-box lining and the water-heater or boiler.

A further object of my invention is to provide a device so arranged that the smoke and flame coming from the range passes directly through the water-heater or boiler, thus increasing the heat to the boiler without extra fuel, thus utilizing the waste products of combustion.

A further object of my invention is to provide a range and boiler located behind the range in such manner that the same is more convenient than those providing for the boiler above the range, for the reason that the light to the range is not obstructed nor the boiler in the way, while at the same time the annoyance of having the heat from the over-

hanging boiler close to the face while cooking is obviated.

With all these objects in view my invention consists in the arrangement of the water-heater or boiler and in the construction of the same and the arrangement of the water-back in combination with the heater or boiler and also in certain combinations of other parts, which will be first fully described, and afterward specifically pointed out in the appended claims.

Referring to the accompanying drawings, Figure 1 is a perspective view of range and boiler, showing also water-box. Fig. 2 is a perspective view of the boiler and water-box, and Fig. 3 is a horizontal section through boiler and water-box. Fig. 4 is a vertical cross-section through the shelf and top of boiler.

Like numerals of reference indicate the same parts throughout the several figures, in which—

1 indicates the range, having the usual lower heating-ovens 2, and 3 indicates the elevated ovens.

4 indicates water-box, which is located as shown in Fig. 1 and which comprises the side 5, front 6, and back 7, the usual fire-brick lining 8 the same as shown in Fig. 1.

9 indicates the boiler, which, as shown in Fig. 1, is arranged in rear of the range and which projects above the top thereof. The said boiler is provided with a centrally-located substantially semicircular vertical recess 10, into which the smoke-pipe 11 extends, said pipe also passing through the upper ovens 3, as shown in Fig. 1. Connecting the said boiler with the water-box is an upper pipe 12 and a lower pipe 13, and leading to the boiler from the water-supply is the supply-pipe 14 and the hot-water pipe 15, while a spigot 16 is conveniently located in the front wall of the boiler, through which hot water can be drawn at any time.

Arranged on top of the boiler 9 is a shelf 17, which may be removable, upon which dishes, &c., are designed to be placed for heating. While it is not new to arrange a shelf above the range, said shelf is generally arranged on brackets and takes its heat from that radiating from the range; but in my construction the shelf takes its heat from the boiler and also from the range, in which case the boiler serves a twofold function.

While the water in the boiler is heated by

the water-box, I have so arranged the boiler that the smoke-pipe passes through the same, thus giving heat directly to the boiler and adding to the heat which has already been
5 given by the fire-box and keeping the boiler and water therein always hot, this without any additional fuel.

Having thus fully described my invention, I do not wish to be understood as limiting
10 myself to the exact construction as herein set forth, as various slight changes may be made therein which would fall within the limit and scope of my invention, and I consider myself clearly entitled to all such
15 changes and modifications.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

1. In a range, the combination of a water-
20 back extending around three sides of the fire-box, a boiler located behind the body of the range, the bottom of said boiler being below the top of the range and the top of the boiler

being above the body of the range, said boiler being connected to said water-back and being constructed to accommodate the range smoke-pipe in such manner that the heat from said smoke-pipe assists in heating the water in the boiler, a shelf arranged to be accommodated on said boiler, and the elevated
25 oven above said boiler and shelf, substantially as described.

2. In a range, the combination of a water-back, a boiler located behind the body of the range, and provided with a recess in its side
35 into which the stove smoke-pipe extends in such manner that the stovepipe assists in heating the boiler, a shelf on said boiler and the elevated oven above said shelf and boiler, substantially as described.

In testimony whereof I affix my signature
40 in presence of two witnesses.

THOMAS T. ROCKETT.

Witnesses:

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BENJAMIN FAYTER.