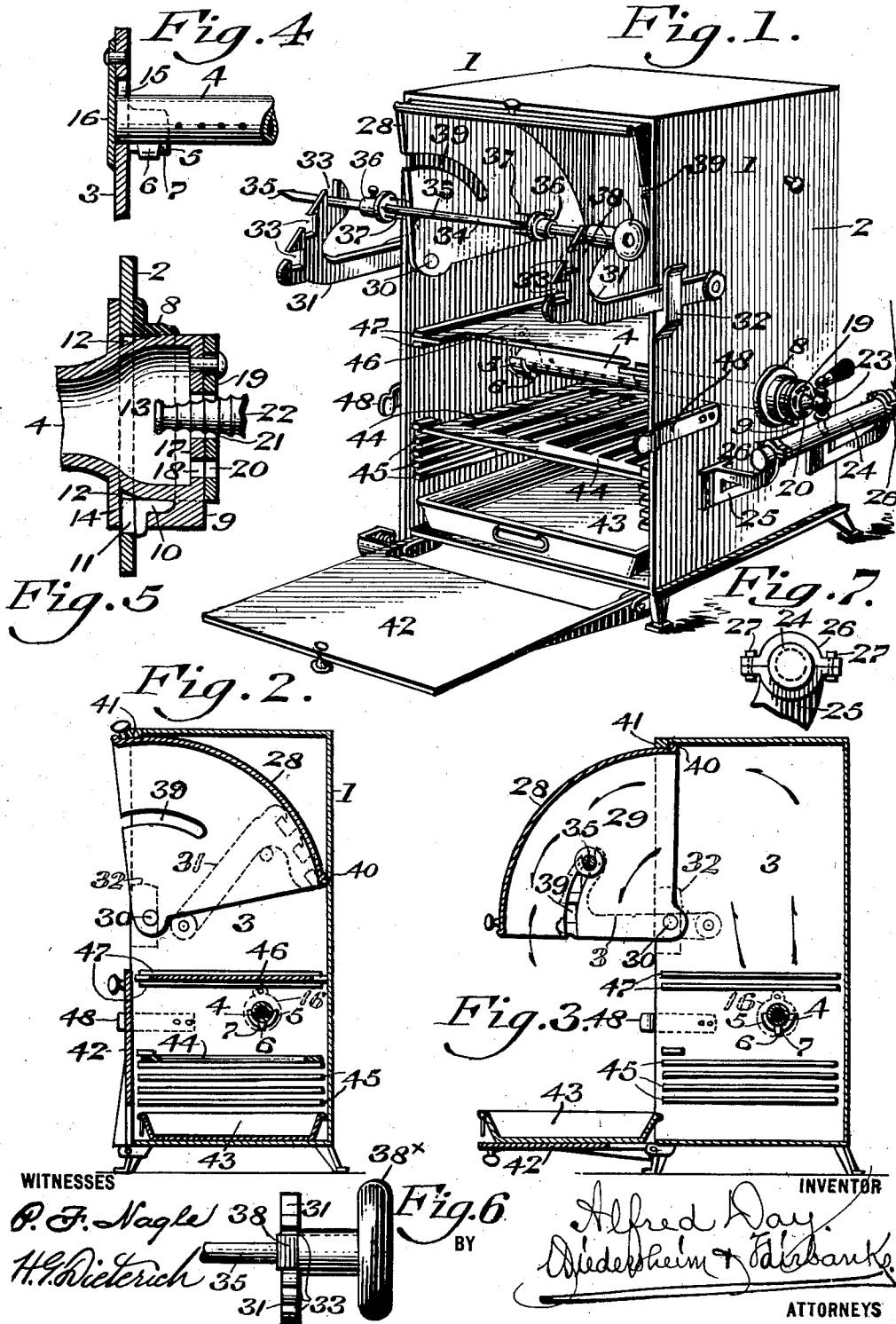


A. DAY.
ROASTER AND BROILER.
APPLICATION FILED JAN. 30, 1913.

1,085,671.

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WITNESSES

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALFRED DAY, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Roaster and Broiler, of which the following is a specification.

My invention consists of a roaster and broiler of the order of a gas range embodying a casing and a hood the latter being adapted to inclose the article of food to be roasted and subject it to the fullest extent of the heat thus causing effective roasting.

It consists also of a novel manner of mounting a gas burner within the casing so as to be properly supported without liability of rotation and adapting it to be removed and reapplied in a convenient manner.

It consists also of a spit which is adapted to be rotated on its support and provided with means for preventing its rotation.

It consists further of means applicable to the casing so as to adapt the same as a broiler.

It consists further of details of construction as will be hereinafter set forth.

The invention is satisfactorily illustrated in the accompanying drawing, but the important instrumentalities thereof may be varied, and so it is to be understood that the invention is not limited to the specific arrangement and organization shown and described.

Figure 1 represents a perspective view of a roaster and broiler embodying my invention. Fig. 2 represents a vertical section thereof. Fig. 3 represents a vertical section thereof, certain parts being in a different position from those shown in Fig. 2. Fig. 4 represents a side elevation of a portion of a gas burner employed, and a vertical section of members adjacent thereto. Fig. 5 represents a vertical section of the portion of said burner opposite to Fig. 4 including a vertical section of members adjacent thereto. Fig. 6 represents a front view of a portion of the spit and a portion of the supporting bracket therefor. Fig. 7 represents an end view of a detached portion enlarged. Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings:—1 designates the casing of the device in the side walls 2 and 3 of which are openings through which is inserted the burner 4, one end of which is supported on the ledge 5 which is located

on the inner side of the wall 3 and secured thereto, said burner having projecting from it the tongue 6 which freely enters the slot 7 radially in the said ledge whereby said end is properly seated and supported on the ledge and prevented from rotating. The other end of said burner 4 is seated in the collar 8 which is located on the outer side of the wall 2 and freely receives the burner having projected radially therefrom the tongue 9 which freely enters the slot 10 radially in the lower portion of said collar whereby said end of the burner is prevented from rotating, it being noticed that said end of the burner is enlarged forming a gas and air receiving and mixing chamber 13, as will be hereinafter referred to. The slot 10 is in communication with the lower portion 11 of the opening 12 in the wall 2, through which the end of the burner is passed. The portion of said burner just within the wall 2 has a flange 14 thereon extending around the same for abutment against said wall whereby the burner is limited in its insertion or motion in the present case to the right.

On the wall 2 about the opening 15 through which the burner is inserted is hung the gate 16 which is adapted to cover said opening and the adjacent end of the burner, and while serving to retain the latter in position it also covers said opening 15 for preventing escape of heat there-through.

The end of the burner in the wall 2 is closed by the plate 17 which has therein a central opening and air ports 18 for the admission of air into the chamber 13 and consequently to the gas therein after the manner of a Bunsen burner, said plate being covered with a rotatable wheel or valve 19 which is provided with ports 20 which may be placed in and out of register with the ports of the plate 17 for regulating the volume of air admitted into the burner or cutting it off therefrom, it being noticed that said valve has an opening 21 centrally therein to receive the tip or nipple 22 of the gas cock 23 which tip or nipple also passes through the central opening of the plate 17, said gas cock being connected with the tubular rail 24 which primarily receives gas, the latter being admitted to the same at one end thereof, as indicated by the arrow Fig. 1. The rail 24 is supported on the brackets 25 in ears 26 thereon, said ears being divided

and connected by the screws or bolts 27 whereby the same may be readily applied, secured and removed as desired.

28 designates a swinging hood of the form
 5 of a quadrant which when not in use is adapted to occupy the upper portion of the casing 1 as in Fig. 1 and when in use to be placed outside of the same and overhang the upper portion of the casing forming the
 10 roasting chamber 29 which is in communication with said upper portion of the casing, the sides of said hood being connected with the side wall 2 of the casing by the pivots 30. 31 designates brackets which
 15 are connected with said side walls by suitable pivots whereby they may swing into horizontal operative position and be sustained on the keeper 32 on the sides of the casing, as in Fig. 1 or thrown upwardly
 20 and rearwardly when not in use, as shown dotted in Fig. 2. The outer limbs of said brackets have notches 33 therein, to receive and support the spit 34 which is composed of an impaling rod 35, the adjustable collars
 25 36 with penetrating pins 37, the squared portion 38 on said rod (see Fig. 6) and the operating handle or knob 38*, it being noticed that the notches 33 are angular in form so as to receive the squared or angular
 30 portion 38 of the rod to prevent rotation of the latter on the brackets while the round portions of the rod permit such rotation when it is desired to turn the article of food such as meat on the spit while the
 35 article is impaled on the rod and held thereon by the collars 36, it being evident that when the rod is properly moved its square portion 38 emerges from the notch that it occupies when its round portions may occupy
 40 opposite notches thus permitting the rod to be turned by the handle 38*, it being noticed that there are series of notches 33 in the brackets so as to set the spit at various heights relatively to the size of the
 45 article of food to be roasted, it being noticed also that the hood is adapted to swing over the spit and article of food and well cover the same, the outlet of the hood being well below said article, it being apparent that
 50 when the gas is turned on and ignited its heat will ascend the upper portion of the casing 1, and be deflected into the hood 28 and so act upon the article of food to roast the same after which the expended heat will
 55 escape at the open bottom of the hood, as apparent in Fig. 3. In order to permit the hood to assume its full operative position as in Fig. 3, the sides of the same have in them the segmental slots 39 which open
 60 from below and are adapted, when the hood is lowered, to receive the rod 35 of the spit and thus permit said hood to properly envelop the article of food to obtain the best results of the heat admitted thereinto. The
 65 upper wall of the hood on the inner end

thereof has a shoulder 40 thereon, and the front end of the top of the casing 1 has a shoulder 41 therein, the latter shoulder being adapted to abut the former shoulder as stops to sustain the hood in operative position.

The lower portion of the front of the casing has a door 42 hinged thereto, the same being adapted to be opened downwardly to form a shelf to support the pan 43 to receive the drip from the roasting article. When the spit is removed, the brackets 31 may be folded on the sides of the casing and supported on suitable stops on said sides as shown dotted in Fig. 2.

The lower portion of the casing constitutes a broiling chamber, it being provided with the rack or broiler 44 which is removably supported on the cleats or ways 45 on the inner wall of the sides of the casing which
 85 cleats also adapt the rack to be placed at different heights according to the thickness of the article of food to be broiled. In some cases it may be desired to retain the heat in the broiling chamber and cut it off from the upper portion of the casing. For
 90 this purpose I employ the baffle plate 46 which is located above the burner 4 and supported on the cleats or ways 47 on the inner walls of the sides of the casing, see Figs. 1
 95 and 2, it being evident that when the burner is ignited and the door 42 closed the heat will be retained in the broiling chamber as will be apparent in Fig. 2, it being noticed that the pan 43 is below the broiler or rack
 100 to catch the dripping of the food.

The door will be held in closed position by suitably applied catches 48.

When the burner requires cleansing or repairs, the gate 16 is raised or removed, the
 105 door 42 opened, when the burner may be raised from the ledge 5 and then drawn with its tongues laterally through the various slots and openings provided therefor and so emerge from the casing after which
 110 it may be returned through said openings and slots and supported on the side walls of the casing and the tongues interlocked with the adjacent members, thus again holding the burner in place and preventing rotation
 115 thereof.

Having thus described my invention what I claim as new and desire to secure by Letters Patent, is:—

1. In a roaster and broiler, a casing, a
 12 hood pivotally mounted thereon, and a spit supporting exteriorly of said casing, said hood being foldable within the casing and movable to extend over the said spit and co-operate with and be limited in its move-
 125 ment by the rod of said spit.

2. In a roaster and a broiler, a casing, a hood pivotally mounted thereon, a spit, and means on said casing for supporting the rod of said spit, said hood having in its sides, 13

slots which are adapted to pass freely over said rod.

3. In a roaster and a broiler, a casing, brackets mounted thereon, a spit having a
5 rod adapted to be supported on said brackets exteriorly of the casing, and the rod rotatably and endwise movably mounted, said
brackets having notches therein, and said
rod having an angular portion which is
10 adapted to be lockingly held in the respective notches and a hood movable over and cooperating with said spit.

4. In a roaster and a broiler, a casing, a spit, and brackets on the casing for supporting the rod of said spit exteriorly of the casing, and the rod rotatably and endwise movably mounted, said brackets having therein
15 a series of notches, one below the other, whereby the spit may be vertically adjusted and a hood movable over and cooperating with said spit.
20

5. In a roaster and broiler, a casing, a hood pivoted therein, and slotted to engage with a spit, a notched bracket pivoted on the casing for operation in a horizontal position and turnable upwardly and rearwardly when not in use and a spit to engage the notches of the bracket. 25

6. In a roaster and broiler, a casing, a hood pivoted therein, and slotted to engage
30 with a spit, a notched bracket pivoted on said casing for operation in a horizontal position and turnable upwardly and rearwardly when not in use and a spit to engage the notches of the bracket, and a keeper
35 for said bracket for sustaining it in its horizontal position.

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Witnesses:

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