

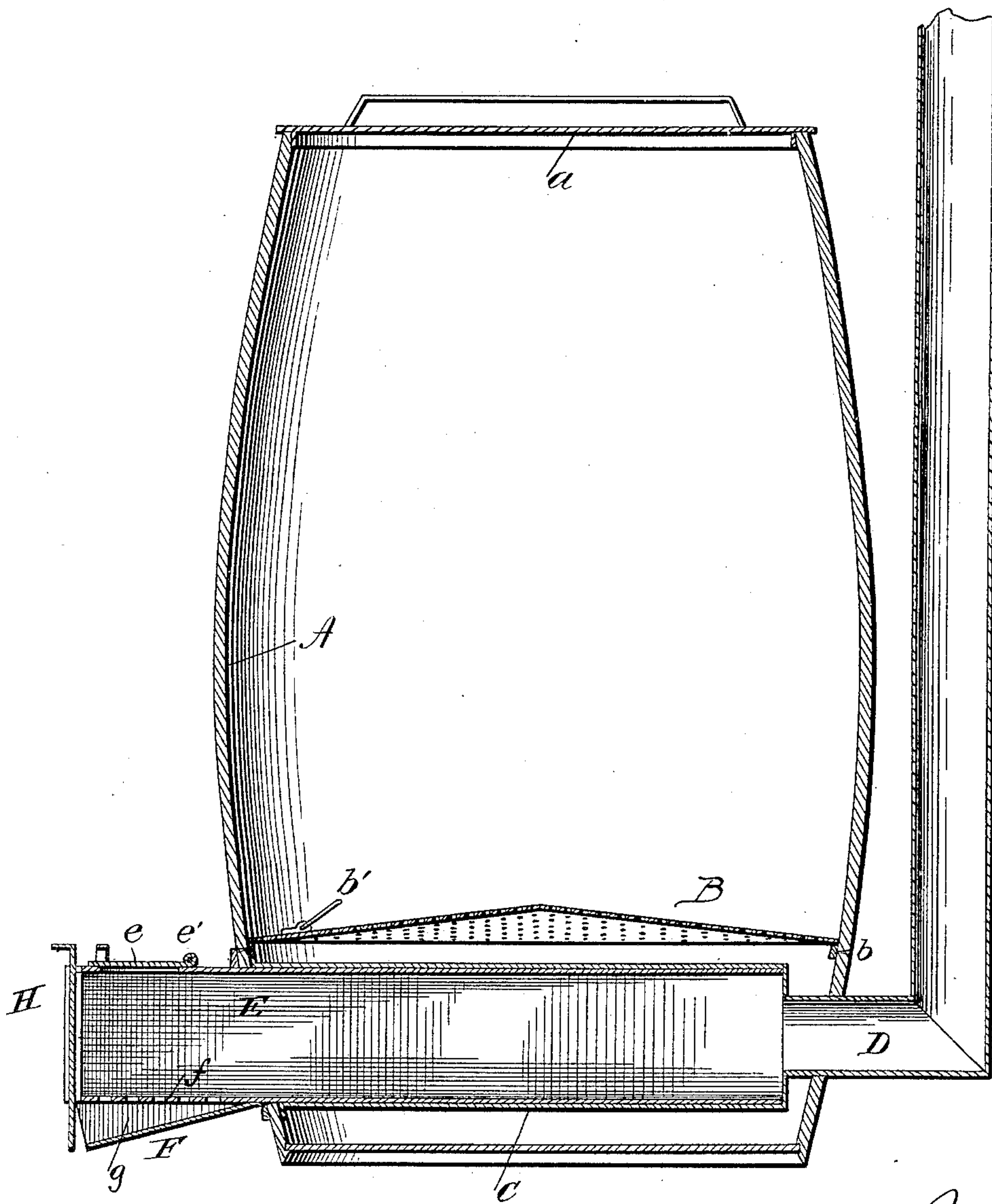
(No Model.)

C. H. MARSHALL.

FEED COOKER.

No. 327,806.

Patented Oct. 6, 1885.



WITNESSES

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# UNITED STATES PATENT OFFICE.

CHARLES H. MARSHALL, OF WOOD RIVER, NEBRASKA.

## FEED-COOKER.

SPECIFICATION forming part of Letters Patent No. 327,806, dated October 6, 1885.

Application filed May 14, 1885. Serial No. 165,472. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES H. MARSHALL, a citizen of the United States of America, residing at Wood River, in the county of Hall and State of Nebraska, have invented certain new and useful Improvements in Feed-Cookers; and I do hereby 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 drawing, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in food-steamers or agricultural boilers; and it consists in providing a barrel or other receptacle at its lower portion with a metallic box, which is open at one end, the opposite end having attached thereto a flue, said box being adapted to receive an independent fire-box, which slides within the same, said fire-box being provided with means for feeding the same and regulating the draft, as will be hereinafter fully set forth, and specifically pointed out in the claim.

My invention also consists in the construction and combination of the parts, as will be hereinafter set forth and specifically claimed.

In the accompanying drawing I have illustrated my invention by a sectional view.

A represents the barrel or other suitably-constructed tank, which is provided with a removable cover, *a*.

Near the lower portion of the barrel the sides are provided with an inwardly-projecting flange, upon which rests a false bottom, B, which is conical in shape, the apex of said false bottom being turned upward, as shown. The false bottom B preferably may be made of perforated sheet metal, and near one edge of the same it is provided with a ring, *b'*, for lifting the same out of the barrel.

The barrel A at one side, near its bottom, has a rectangular opening cut in the same, within which is placed the box C, the outer edge of which is provided with flanges, by means of which it is attached to the sides of the barrel. The opposite end of this box has

attached thereto the horizontal portion D of a flue, which flue projects through the barrel, and is then turned upwardly.

The box C is secured to the barrel so that it will be perfectly water-tight, and said box is adapted to receive a fire-box, E, which is constructed with open ends and of such a size that it can be readily slid within the box C.

The upper outer end of the fire-box E is provided with an opening, *e*, through which fuel may be fed upon the grate, and said opening is covered by a pivoted top, *e'*. The lower portion, *f*, of the fire-box E is cut away at intervals, so as to form grate-bars, under which is attached a plate, F, having angular sides *g*. The outer end of the plate F and side pieces, G, are open, and by this construction I provide a draft-passage, which is located under the fire-box, and through which air will be admitted to the fuel.

The outer sides of the ends of the box E are either grooved vertically or bent at right angles with the main portion for the reception of a sliding door, H, which is capable of a vertical movement within said grooves. This door is of sufficient length to reach on a line with the lower edge of the plate F, and by raising or lowering this door the draft can be regulated. This door may also be raised out of the grooves, so as to leave the end of the fire-box entirely open, so access can be had to the interior of the same when it is desired to rake out the fire or clean the fire-box.

The operation of my invention is as follows: When it is desired to steam or cook vegetables, food, or other material, water is placed in the tank, so as to entirely cover the casing C of the fire-box, and the articles or materials to be cooked or steamed are placed upon the false bottom B, which bottom is perforated, so as to allow the steam to escape through the same, and owing to the shape of this bottom it is able to sustain any ordinary weight which may be placed within the barrel.

The fire is built entirely within the removable box E, and the draft can be regulated by raising or lowering the door H, so as to increase or diminish the opening in front of the plate F.

The device herein described is extremely simple in construction and effective in operation.

I am aware that prior to my invention it was not broadly new to provide a steamer or boiler with a removable furnace and grate, and I do not claim such as my invention.

I claim—

The removable fire-box E, open at its ends and provided at its outer end with grate-bars, a feed-opening, *e*, and door which is located above the grate-bars, a vertical sliding door,

H, an inclined plate, F, with side pieces, *g g*, attached to said fire-box under the grate-bars, in combination with the receptacle A, having the casing C and draft-pipe, substantially as shown, and for the purpose set forth. 15

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

CHARLES H. MARSHALL.

Witnesses:

W. B. HOLLISTER,  
HENRY JANSS.