

(No Model.)

N. B. POWELL.

COFFEE ROASTER.

No. 268,725.

Patented Dec. 5, 1882.

Fig. 1.

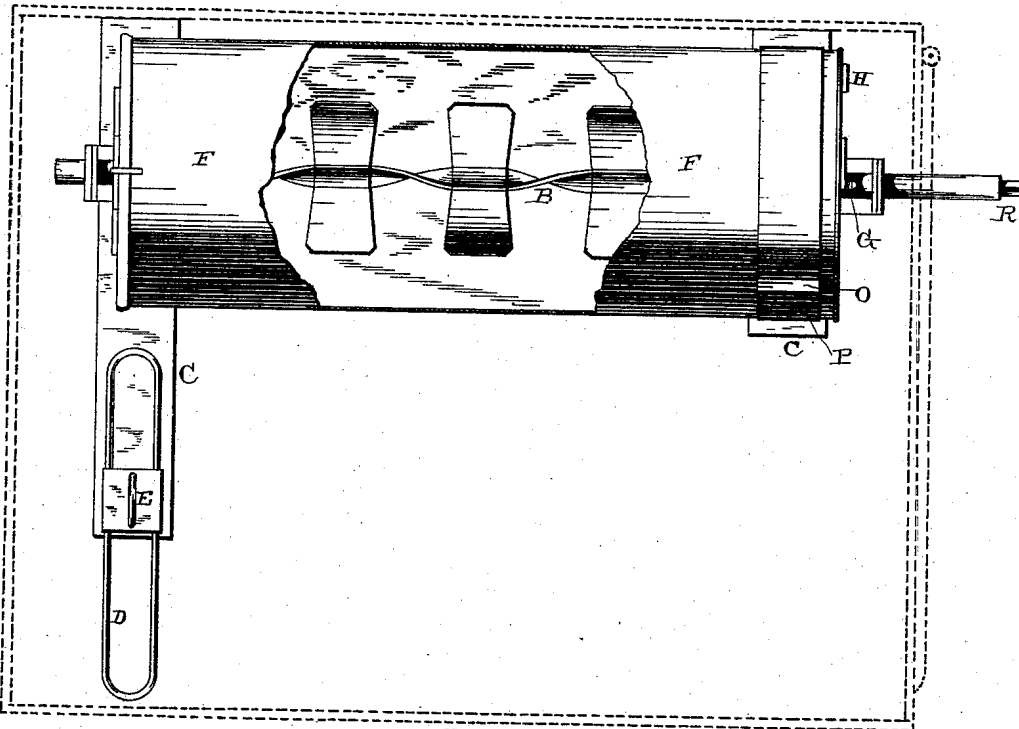
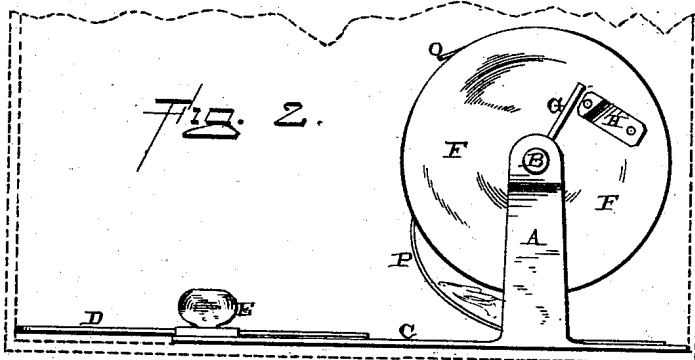


Fig. 2.



— Witnesses. —

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UNITED STATES PATENT OFFICE.

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COFFEE-ROASTER.

SPECIFICATION forming part of Letters Patent No. 268,725, dated December 5, 1882.

Application filed September 22, 1882. (No model.)

To all whom it may concern:

Be it known that I, N. B. POWELL, of Versailles, in the county of Brown and State of Illinois, have invented certain new and useful Improvements in Coffee-Roasters; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in coffee-roasters; and it consists, first, in the combination of a cylinder and a stirrer-shaft which has one end passed through the oven-door of the stove with an adjustable foot or brace which is attached to one end of the supporting-frame, so that it can be adjusted to the width of the oven, and thus hold the cylinder in position while the stirrer-shaft is being turned; second, in the combination of a cylinder which revolves loosely upon the stirrer-shaft with the stirrer-shaft, provided with an arm for causing the cylinder to revolve when the shaft is turned in one direction, but which arm will allow the cylinder to remain stationary when the shaft is turned in the opposite direction, and thus allow the coffee to be stirred without revolving the cylinder; third, in the arrangement and combination of parts which will be more fully described hereinafter.

The object of my invention is to provide a coffee-roaster in which the cylinder is placed loosely upon the shaft, so that when the shaft is turned in one direction it will simply stir the coffee without revolving the cylinder; but when the shaft is turned in the other direction it will cause the cylinder to revolve with it.

Figure 1 is a plan view of my invention, partly in section. Fig. 2 is an end view of the same.

A represents suitable supports, in which the stirrer-shaft B is journaled. These supports have attached to them the two feet or braces C, which rest solidly upon the bottom of the oven, and which are made of unequal length. The foot or brace at the end of the cylinder where the shaft is made to project through the oven-door is quite short, while the foot or brace at the oppo-

site end of the cylinder is made longer, and to one end is loosely clamped the adjustable brace D. This brace may consist either of a single link or of a slotted piece of metal, through which is passed the set-screw E. This brace is made adjustable, so that it can be adjusted to different widths of oven, and thus made to abut against the side of the oven and prevent any lateral play while the cylinder is being turned. Were it not for this adjustable brace, there would be nothing to hold the cylinder in position while it was being made to revolve, filled with coffee, and it would constantly work out of position. Being held in place by this adjustable brace at one end, and at the other end by the end of the shaft which passes through the door, the machine always remains in position while in the oven.

The cylinder F, which is made to revolve freely between the supports, is placed loosely upon the stirrer-shaft B, so that when the stirrer is turned in one direction the cylinder will not revolve with it, and thus allow the arms upon the stirrer-shaft to work freely through the coffee for the purpose of stirring it up. In order to compel the cylinder to revolve with the shaft when the shaft is turned in the opposite direction, an arm or lever, G, is secured to the shaft outside of one end of the cylinder; and formed upon the end of the cylinder itself is an inclined projection, H, against which the arm will catch when turned in the proper direction. This arm, owing to the inclined side of the projection, engages with it only when the shaft is turned in one direction, and then it compels the cylinder to revolve with the shaft. Also, formed upon the side of the cylinder, near one end, is a suitably-inclined projection, O, under which the spring P catches, so as to form a stop to the cylinder and prevent it from revolving with the shaft when it is desired to simply stir the coffee without having the cylinder revolve with the shaft. When the shaft is so turned that the cylinder is made to revolve with it this inclined projection or stop slips past the spring P without any obstruction. One end of the cylinder is provided with a suitable door and spring-catch, so that the coffee can be freely inserted and removed from the cylinder. The crank R on the

end of the shaft is to be removed until after the end of the shaft has been passed through the hole in the oven-door. This hole in the door will be provided with a suitable slide or cover of any kind, so as to prevent the escape of the heat from the oven when being used for cooking.

Having thus described my invention, I claim—

1. The combination of a coffee-roaster with an adjustable brace or slide which is made to bear against the side of the oven to hold the roaster in place, substantially as shown.

2. In a coffee-roaster, the combination of the revolving stirrer-shaft, a cylinder placed loosely thereon, and a means for compelling the cylinder to revolve with the shaft when the shaft is turned in one direction only, substantially as described.

3. The combination of a suitable stirrer-shaft, a cylinder placed loosely thereon and provided with a suitable projection at one

end, and an arm or lever which is secured to the shaft, so as to catch behind the projection when the shaft is turned in one direction, substantially as set forth.

4. The combination of the stirrer-shaft, a cylinder which is placed loosely thereon, and which is provided with a projection on one end, and an arm or lever on the shaft, with a projection or stop which is formed on the side of the cylinder, and a spring to catch against this stop when the shaft is so turned that its arm or lever will not engage with the projection on the end of the cylinder, substantially as specified.

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

NAPOLEON BONYPART POWELL.

Witnesses:

ALEXANDER HALL,
W. S. HENRY.