

UNITED STATES PATENT OFFICE.

CHARLES C. BUTT, OF DUCK HILL, MISSISSIPPI.

IMPROVEMENT IN COFFEE-ROASTERS.

Specification forming part of Letters Patent No. 122,357, dated January 2, 1872.

Specification describing a certain Improvement in Coffee-Roaster, invented by CHARLES C. BUTT, of Duck Hill, in the county of Montgomery and State of Mississippi.

Figure 1 is a top view of my improved coffee-roaster arranged for use upon a hearth. Fig. 2 is a detail sectional view of the same taken through the line *xx*, Fig. 1. Fig. 3 represents the detached standards designed for use in applying the roaster to a stove. Fig. 4 represents a long connecting-rod designed to be used when the roaster is applied to a stove.

My invention has for its object to furnish a simple, convenient, and reliable coffee-roaster, which shall be so constructed as to adapt it for use upon a hearth with a fire-place fire, or with a stove, as may be desired, and which will roast the coffee evenly and in such a way as not to allow the aroma to be driven off and be lost; and it consists in the construction and combination of the various parts, as hereinafter more fully described.

A represents a sheet-metal cylinder, within which and concentric therewith is placed a smaller corrugated cylinder, B. The cylinder A is made air-tight to prevent the escape of the aroma, and is provided with an opening in one side for the admission and removal of coffee, which opening is closed with a sliding or other suitable cover, *a'*. With this construction the coffee, while being roasted, is placed in the space between the cylinders A B, the inner cylinder B not only keeping the coffee spread over and close to the shell of the outer cylinder A, but also keeping it always thoroughly stirred. Through the center of the cylinders A B, longitudinally, passes the rod or shaft C, which is so connected with said cylinders, either by being made square or otherwise, as to carry them with it in its revolution. The journals of the shaft C revolve in bearings in the upper parts of the standards D. In the case of a fire-place fire the lower ends of the standards D are rigidly attached to a base-frame, E, which should be so formed as to stand firmly upon the hearth and support the cylinders in such a position that they will be fully exposed to the heat of the fire. When

the roaster is to be used with a stove the lower ends of the standards D have hooks or bends *d'* formed upon them to fit upon the side flanges of the stove top, to which they are secured by set-screws *d''*, as indicated in Fig. 3. The standards D should be attached to the stove in such positions as to bring the cylinders A B directly over the front boiler-holes, the covers of which may be removed, together with the detachable part of the stove top between said boiler-holes. To one end of the shaft C is attached, or upon it is formed, a crank, *c'*, to which is pivoted the upper end of the connecting-rod F, the lower end of which is pivoted to the crank-arm *g'* formed upon or attached to the shaft G, which revolves in short standards *h'* attached to or formed upon the base-frame H. To the shaft G, near its end furthest from the cylinders A B, is attached or upon it is formed a treadle or foot-piece, *g''*, to receive the foot of the operator and enable him to operate the roaster with his foot, and at the same time be at such a distance from the fire as not to be incommoded by the heat. When the roaster is to be used with a fire-place fire the frame H should be bolted to the frame E. When the roaster is to be used with a stove the frame H is detached from the frame E, and may be secured in place upon the floor by screws, weights, or other convenient means.

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

1. The outer cylinder A *a'* and inner corrugated cylinder B, in combination with each other for receiving and holding the coffee while being roasted, substantially as herein shown and described, and for the purpose set forth.

2. The combination of the cylinders A *a'* B, crank-shaft C *c'*, standards D, whether detachable or attached to a base-frame, E, connecting-rod F, crank and treadle-shaft G *g'* *g''*, and base-frame H *h'* with each other, substantially as herein shown and described, and for the purpose set forth.

Witnesses:

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