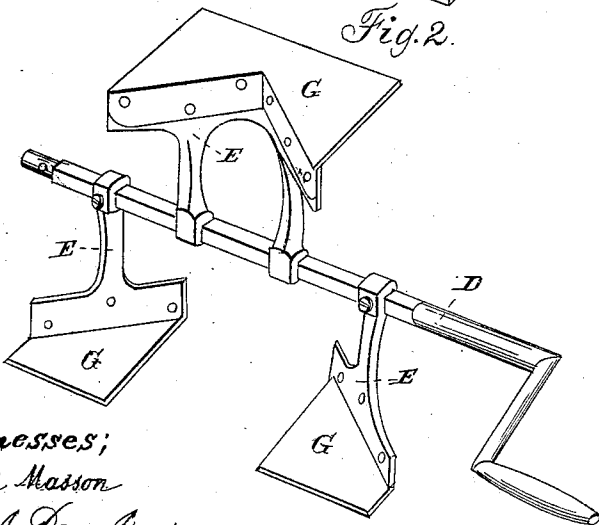
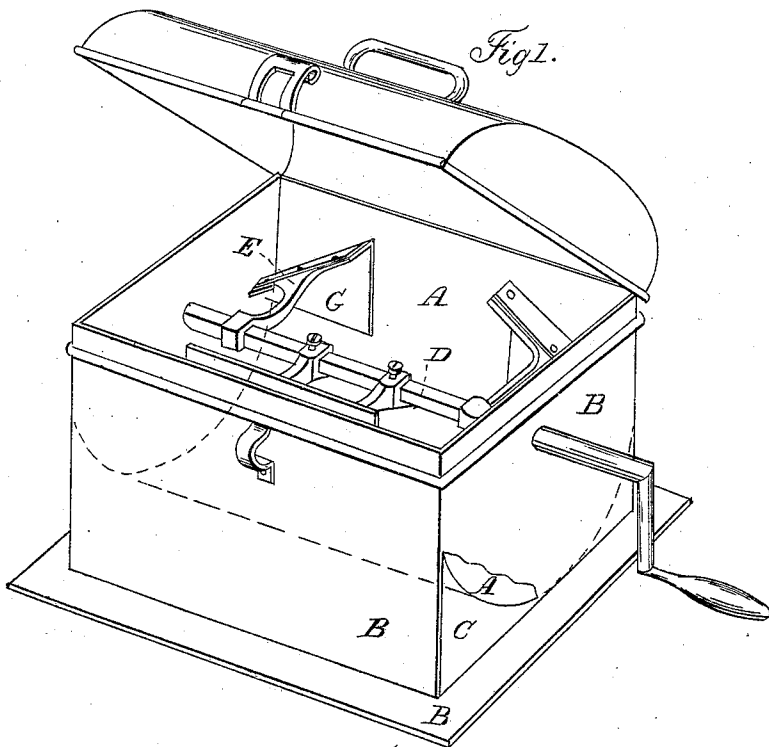


B. K. MALTBY.

Coffee Roaster.

No. 78,386.

Patented May 26, 1868.



Witnesses;
Edmond Masson
Philip J. Dorn Jr.

Inventor;
B. K. Maltby

United States Patent Office.

BENJAMIN K. MALTBY, OF CINCINNATI, OHIO, ASSIGNOR TO THOMAS N. DRAKE, OF SAME PLACE.

Letters Patent No. 78,386, dated May 26, 1868.

IMPROVEMENT IN COFFEE-ROASTERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, BENJAMIN K. MALTBY, of Cincinnati, in the county of Hamilton, and State of Ohio, have invented a new and useful Improvement in Coffee-Roasters; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, and the letters marked thereon, making a part of this application, in which—

Figure 1 is a perspective view of the whole, as put together for use, and

Figure 2 a perspective view of the wheel only.

The nature of my invention consists in constructing a cylindrical coffee-roaster with a revolving axle or shaft, provided with wings or paddles, acting as opposite inclined planes. To these paddles are attached secondary planes or elastic plates, serving both as inclined planes and springs, enabling the wheel, when in motion, to conform to any irregularity in the bed or trough, and, acting in connection with the stationary semi-cylindrical bed, causes a transition of the substance being roasted back and forth upon the heated surface of the bed.

In the drawings presented, only two sets or pairs of these paddles are employed, though in larger structures more than two sets may be used.

The apparatus entire, as shown in fig. 1, is made of sheet or cast iron or copper, as may be preferred, and consists of a stationary semi-cylindrical bed or trough, marked A, resting upon a frame or case of the same material, indicated by the letter B, with an opening from below, as shown at C, allowing the fire to rise up and around, and act upon the cylinder when placed upon any heating-apparatus.

D is the shaft or axle upon which the arms E are attached. The arms or wings E are so placed, as shown in fig. 2, as to constitute opposite inclined planes, the two occupying the ends of the axle, throwing the article being roasted into the middle of the cylinder, the double one, in the middle, returning it to the ends.

The secondary wings or plates G, attached to the inclined planes E, are elastic plates or blades, having the outer edges in a line with the axle or shaft, and are elastic, to enable the wheel, as before expressed, to accommodate itself to irregularities, if any, exist in the bed, and to fit more closely to it without unnecessary friction.

The other parts, not specifically referred to here, are simply mechanical contrivances, not essential to the principles contemplated in its structure, such as the cover, the modes of fastening adopted for the arms, or the mode of uniting the two inclined planes E and G; neither is it deemed essential that the framework in which the cylinder rests should conform in shape or material to the specimen.

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

A coffee-roaster, provided with an axle or shaft, to which paddles, acting as inclined planes, and combined with elastic plates, are attached, and which revolves within a stationary semi-cylindrical bed, the whole being constructed, arranged, and operated substantially in the manner and for the purpose described.

BENJ. K. MALTBY. [L. s.]

Witnesses:

EDMUND MASSON,
PHILIP J. DORN, Jr.