

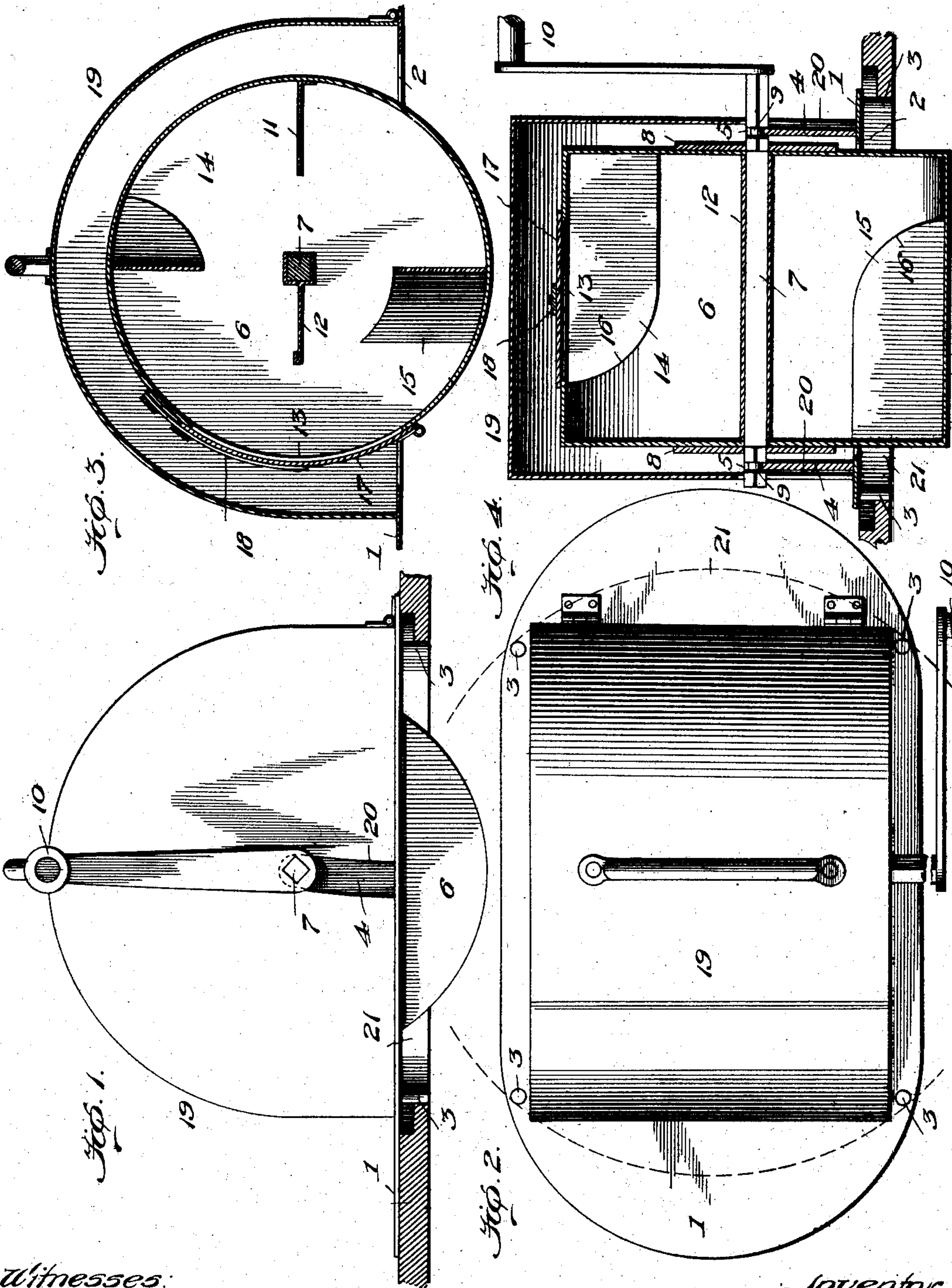
No. 706,571.

Patented Aug. 12, 1902.

F. KRUX.
COFFEE ROASTER.

(Application filed Feb. 27, 1902.)

(No Model.)



Witnesses:

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UNITED STATES PATENT OFFICE.

FRANK KRUX, OF SAN FRANCISCO, CALIFORNIA.

COFFEE-ROASTER.

SPECIFICATION forming part of Letters Patent No. 706,571, dated August 12, 1902.

Application filed February 27, 1902. Serial No. 95,890. (No model.)

To all whom it may concern:

Be it known that I, FRANK KRUX, a citizen of the United States, residing at San Francisco, county of San Francisco, and State of California, have invented certain new and useful Improvements in Coffee, Peanut, or Corn-Malt Roasters, of which the following is a specification.

My invention relates to a coffee, peanut, or corn-malt roaster.

The object of the invention is the provision of a roaster of the class described adapted for either family or factory use and for operation by manual or other power, which will be of simple and comparatively inexpensive construction and of such improved and novel form that all the beans or particles will roast evenly and to the same degree, and which will be adapted to prevent poisonous substances from remaining in the bean.

A further object of the invention is the provision of a roaster of the class described of novel form, whereby it can be placed over a fire in a stove or other heater and the most advantageous results obtained from the heating action and one in which a novel arrangement and construction of wings will be employed in the roasting-drum.

To accomplish the foregoing objects and others not specifically mentioned, the invention consists of a plate equipped with legs arranged in a novel manner for reception in the opening of the stove or heater to prevent sliding about of the roaster and a rotary roasting-drum having a suitable cover to retain the heat and equipped with wings of improved form which are adapted to assist the coffee-beans or other material being treated to circulate freely and consequently roast quickly, all as set forth in detail in the following description and recited in the appended claim.

In the accompanying drawings, Figure 1 is a side elevation illustrating how the legs are received in the stove-opening; Fig. 2, a plan, the dotted line representing the margin of the stove-opening; Fig. 3, a cross-section, and Fig. 4 a longitudinal section.

The numeral 1 designates a plate, preferably of greater length than width, which is

provided with a central opening 2 of suitable shape and has the short depending legs 3 preferably positioned adjacent the four corners.

The numerals 4 designate standards arising from the plate on opposite sides thereof, which have notches 5 in their upper ends.

At 6 is shown a hollow roasting-drum, through which extends the square shaft 7, suitably secured thereto by passing through square openings in the plate 8 at the ends of the drum, said shaft having the reduced rounded portions 9, which are received in the notches 5, whereby the drum is journaled in the standards, but is held against lateral displacement and is so positioned that the lower portion of the drum extends through the opening in the plate and down below the lower ends of the legs, for a purpose appearing hereinafter. At 10 is shown a handle secured to the shaft and whereby the drum may be rotated. It will be understood, of course, that suitable mechanism for turning the drum by hand-power or by other power could be substituted for this handle. Extending across the drum on the interior thereof is a wing 11, which reaches from side to side of the drum and runs parallel to the shaft. Secured on the shaft is another straight wing 12, located in the same plane approximately with the wing 11 and disposed opposite and adjacent to the opening 13 in the drum through which the material is introduced.

The numerals 14 and 15 designate wings located on opposite sides of the drum substantially a quadrant's distance from the straight wings, and these wings are inclined in relation to the drum and the straight wings and extend from one end or head of the drum the greater portion of the distance across the drum, but terminate in the rounded ends 16, while both the straight wings extend clear across the drum from head to head thereof. This peculiar arrangement and construction of the wings gives the present invention points of superiority over others heretofore known in that the coffee-beans or material being roasted is caused to circulate more freely, and consequently roasts more quickly. In other words, the beans travel back and

forth as the drum is rotated, and the roasting action is more rapid and perfect.

The feed-opening 13 is closed by a door 17, which is held locked by suitable latch mechanism 18.

The numeral 19 designates an arched cover having the slots 20 to accommodate the projecting portions of the axle, which is adapted to close down over the drum and rest on the plate and keep the heat confined to the drum, as also properly preventing the smoke from issuing from the roaster.

As shown in Figs. 1, 2, and 4, when the roaster is placed on a stove or heater the short legs 3 fit in the opening 21 of the stove, permitting the plate to rest flat on the stove and the lower portion of the drum to drop down into or over the fire, in view of which arrangement the greatest possible heating effect is obtained, while the arrangement of the legs with the margin of the opening of the stove satisfactorily prevents any sliding about of the roaster on the stove.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

In a coffee-roaster, a rotary drum having a feed-opening and a door therefor, of a shaft fixed in relation to the drum and turning therewith, a wing secured to the shaft and disposed opposite the opening in the drum, another wing secured to the drum on the opposite side from the said opening, and inclined wings each located substantially a quadrant's distance from the wings aforesaid, said inclined wings extending from opposite ends of the drum toward each other and with their angles of inclination opposed and their respective ends being rounded and terminating short of opposite ends or heads of the drum.

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

FRANK KRUX.

Witnesses:

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