(No Model.)

P. J. RUMSEY.

Nut Roaster.

No. 233,026. Patented Oct. 5, 1880.

Fig. 1.

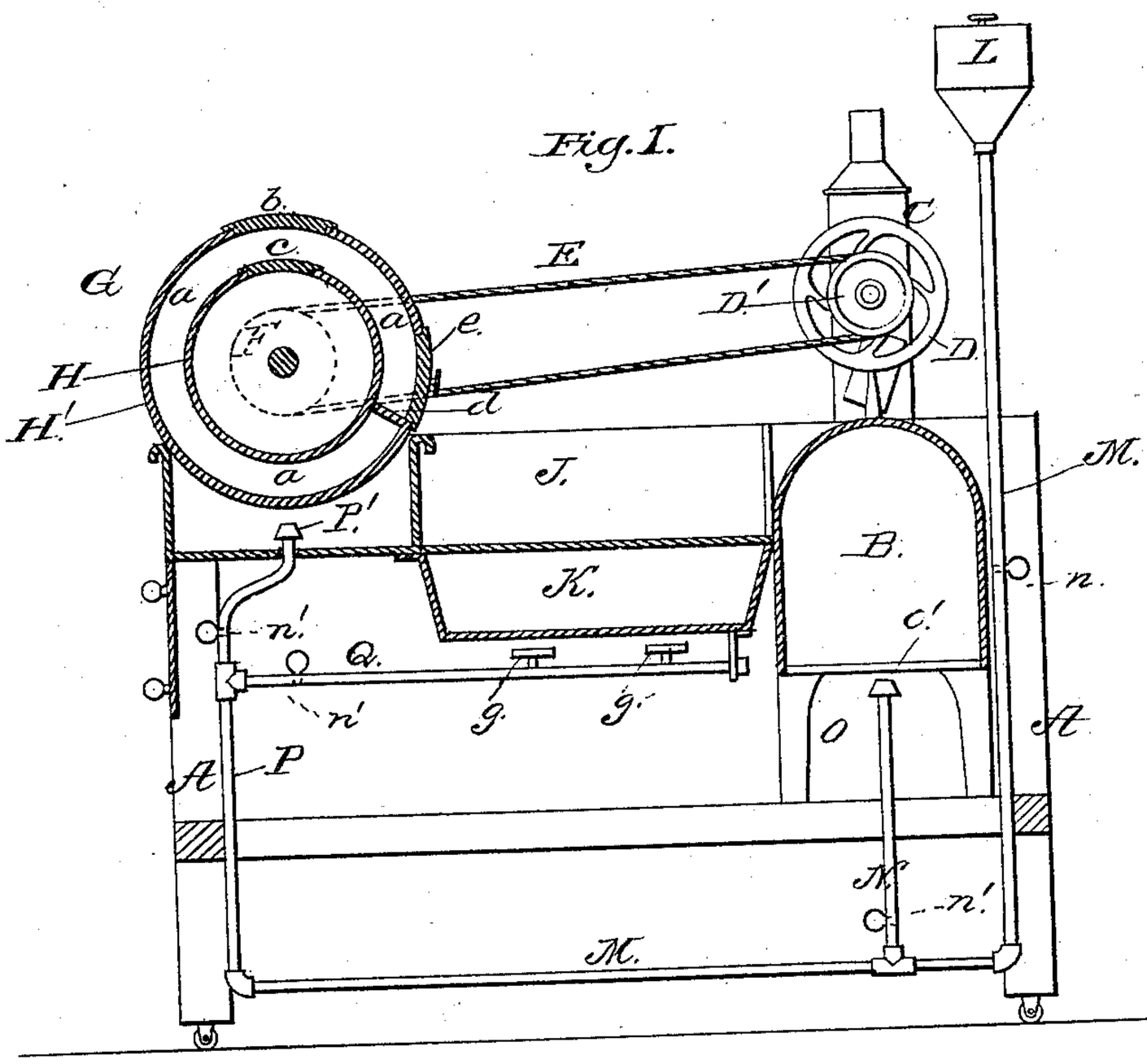
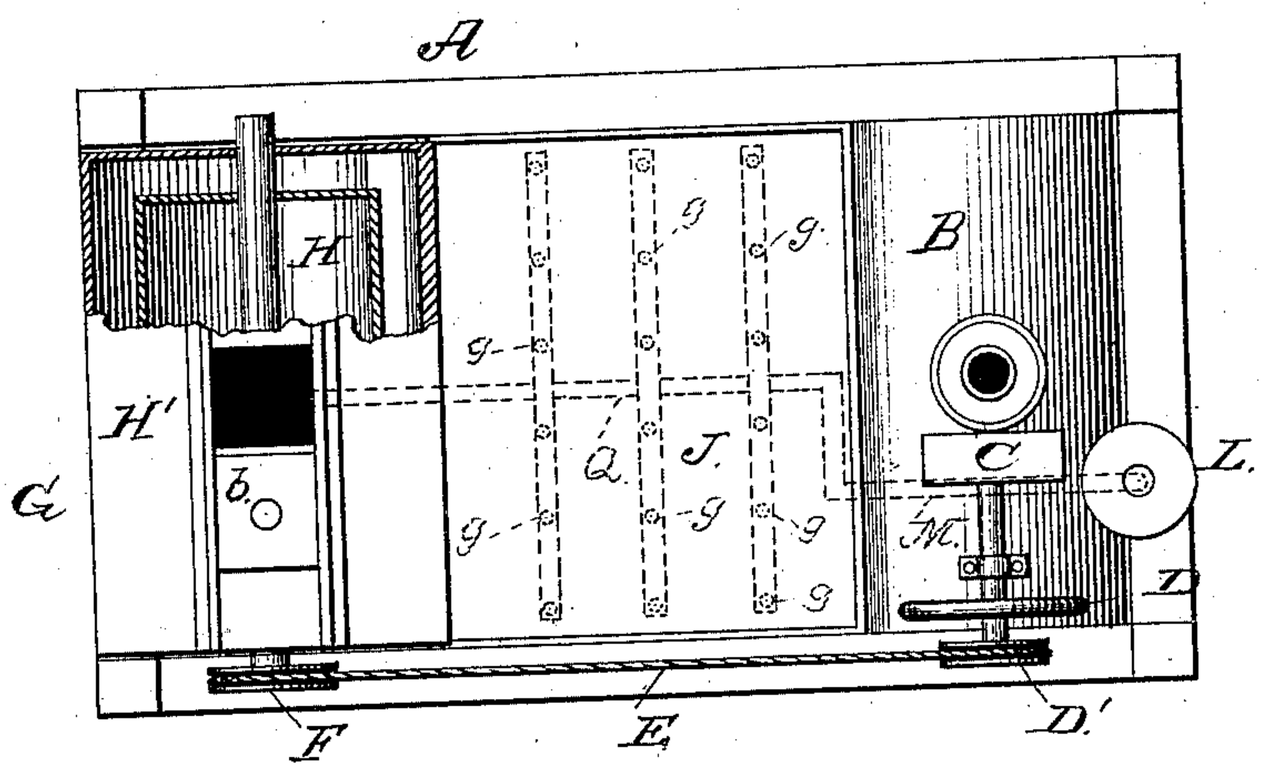


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

PHILO J. RUMSEY, OF MARSHALLTOWN, IOWA.

NUT-ROASTER.

SPECIFICATION forming part of Letters Patent No. 233,026, dated October 5, 1880.

Application filed May 26, 1880. (No model.)

To all whom it may concern:

Be it known that I, PHILO J. RUMSEY, of Marshalltown, in the county of Marshall and State of Iowa, have invented a new and valuable Improvement in Nut-Roasters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal vertical section of my improved roaster, and Fig. 2 is a plan view thereof.

This invention has relation to improvements in means for roasting peanuts, coffee, and other articles requiring roasting; and the invention consists in a machine constructed, arranged, and operating substantially as hereinafter fully set forth.

In the annexed drawings, the letter A designates a strong rectangular metallic frame having mounted on one end a steam-generator, B, driving a small upright engine, C. The driven shaft of this engine is provided with a fly-wheel, D, and a peripherally-grooved concentric pulley, D′, around which passes a belt, E, leading to and around a similar pulley, F, on the roaster G.

This roaster is composed of an inner and an exterior cylinder, lettered, respectively, H and H′, concentric with each other and separated from each other by an annular space, *a*.

The cylinder H′ is fixed to the frame, while the cylinder H rotates freely in bearings in the heads of the cylinder H′, and carries on the end of one of its journals the pulley F, aforesaid.

The cylinder H′ is provided with the sliding door *b*, and cylinder H with a similar door, *c*, which, when brought in line with the door *b*, allows the articles to be roasted to be readily introduced into the rotary cylinder H.

Extending from the cylinder H′, across the interval between the same and cylinder H, is an inclined fixed flange, *d*, which acts as a chute to deliver the roasted articles through a door, *e*, into a warming-pan, J, arranged between the roaster and the engine on frame A, and provided on its bottom with a water or steam chamber, K.

The peanuts roasted in cylinder H are kept warm in the pan J.

L indicates a tank, arranged above the boiler and roaster, and designed to contain a supply of gasoline or other inflammable oil. From this tank a main feed-pipe, M, extends downward and lengthwise of the frame, having a branch-pipe, N, leading into the fire-box O, and having the horizontal burner tube or tubes O′, and a second branch-pipe, P, extending upward under the cylinder H′, and likewise provided with burner-tubes P′.

The tubes O′ P′, respectively, heat the boiler and roaster.

Extending out horizontally from pipe P, under the steam-chamber K, is a pipe, Q, provided with a number of burners, *g*, which keep the water in the said chamber hot, or, when steam is used, prevent the steam from condensing.

The main supply-pipe M is provided with a cock, *n*, in its vertical branch below the tank L, and the branch pipes N P Q each with a similar cock, *n′*, by means of which the oil-supply to the branches may be generally regulated, and also the individual supply thereto reduced or increased according to circumstances.

The peanuts being in cylinder H, which is spaced from the cylinder H′, to which the heat is applied, the nuts are roasted by hot air and thoroughly cooked without danger of burning or carbonization, for the reason that the inner cylinder is never in direct contact with the flame.

I am aware that a rotary roasting-cylinder in a stationary cylinder and separated therefrom by an air-space is not new, and I do not claim such devices broadly.

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

1. The combination, with the frame A, having the boiler and engine at one end, and a driven shaft having a fly, D, and a grooved pulley-wheel, D′, operated by said engine, of a fixed casing-cylinder, H′, at the other end of frame A, a concentric cylinder, H, journaled in the ends of cylinder H′ and rotating there-

in, the pulley F, endless belt E, discharge and feed doors *e b* in the cylinder H′, feed and discharge door *c* in cylinder H, fixed chute-flange *d*, extending across the interval between the cylinders at the bottom side of door *e*, and a warming-pan, J, arranged to receive the discharge, as shown and described.

2. The combination, with a frame, A, having a boiler, B, engine C, and fire-box O at one end, the fixed cylinder H′, the concentric rotating cylinder H, separated therefrom by an air-space, the fixed chute-flange *d*, extending across said space, and the door *e* in cylinder H′, of an intermediate pan, J, receiving the discharge from the fixed chute-flange through door *e*, and having the steam or water chamber K, as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

PHILO JOSEPH RUMSEY.

Witnesses:

R. F. MARSHALL,

B. MCELFRESH.