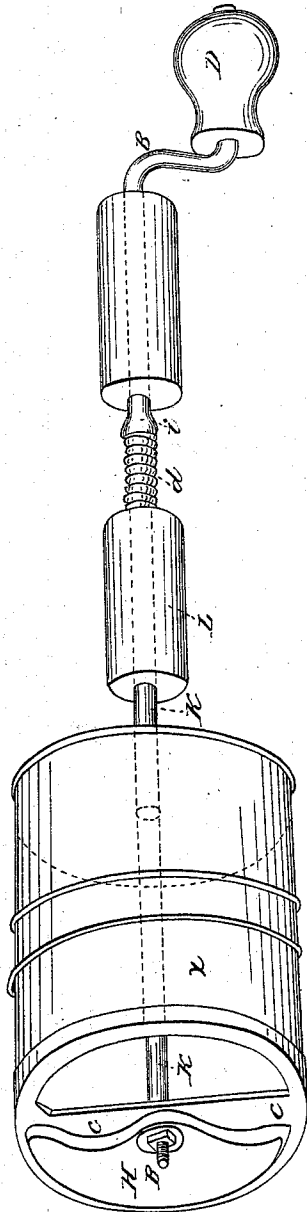


L. A. WARNER.
Coffee Roaster.

No. 105,530.

Patented July 19, 1870.



WITNESSES:

L. H. Hiram
W. L. Hume

INVENTOR:

L. A. Warner

United States Patent Office.

L. A. WARNER, OF FREEPORT, ILLINOIS.

Letters Patent No. 105,530, dated July 19, 1870.

IMPROVEMENT IN CORN-POPPERS AND COFFEE-ROASTERS.

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

Know all men that I, L. A. Warner, of Freeport, in the county of Stephenson and State of Illinois, have invented certain Improvements in Corn-Poppers and Coffee-Roasters; and I hereby declare the following to be a clear and exact description of the same, reference being had to the accompanying drawings forming part of this specification, which represent a perspective view of the roaster.

X is a cylinder or drum, having an opening in one of the ends or heads for charging and discharging its contents.

H is a lid or cover for the opening in the cylinder-head *c*, made with projections on the inside to fit the opening, so as to prevent it from turning, when closed, without turning the cylinder with it.

B is a rod or shaft, one end of which is fastened to the lid H, the other end terminating in a crank marked D.

K is a tube fastened to the cylinder-head *c* at the center, through which the shaft B is passed, and extending through the cylinder along the shaft B as far as required for the purposes hereinafter described.

L is a handle made fast on the tube K.

i is a stop or knob fastened on the shaft B a short distance from the end of tube K.

d is a spiral spring, coiled around shaft B, between the knob *i* and the end of tube K.

The parts being properly adjusted when together, the spring *d*, by pressing against the knob *i* one way and the tube K the other way, forces the lid into the opening and holds it in place, and, by taking the handle L with one hand and the crank D with the other, and pressing the spring together, the lid H is forced out of the opening, and may be turned away for the purpose of charging and discharging the roaster or examining its contents.

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

1. The tube K and lid H, when combined with the cylinder X and shaft B, and constructed and operating substantially as described, and for the purposes set forth.

2. The combination of the tube K with the shaft B, the lid H, the spring *d*, and knob *i*, for the purpose of opening and closing the lid or cover of corn-poppers and coffee-roasters, in the manner substantially as described.

3. The spring *d* and the knob *i*, when used in combination with the shaft B and the tube K, in the manner substantially as and for the purpose set forth.

L. A. WARNER.

Witnesses:

J. A. CRAIN,
B. L. HANE.