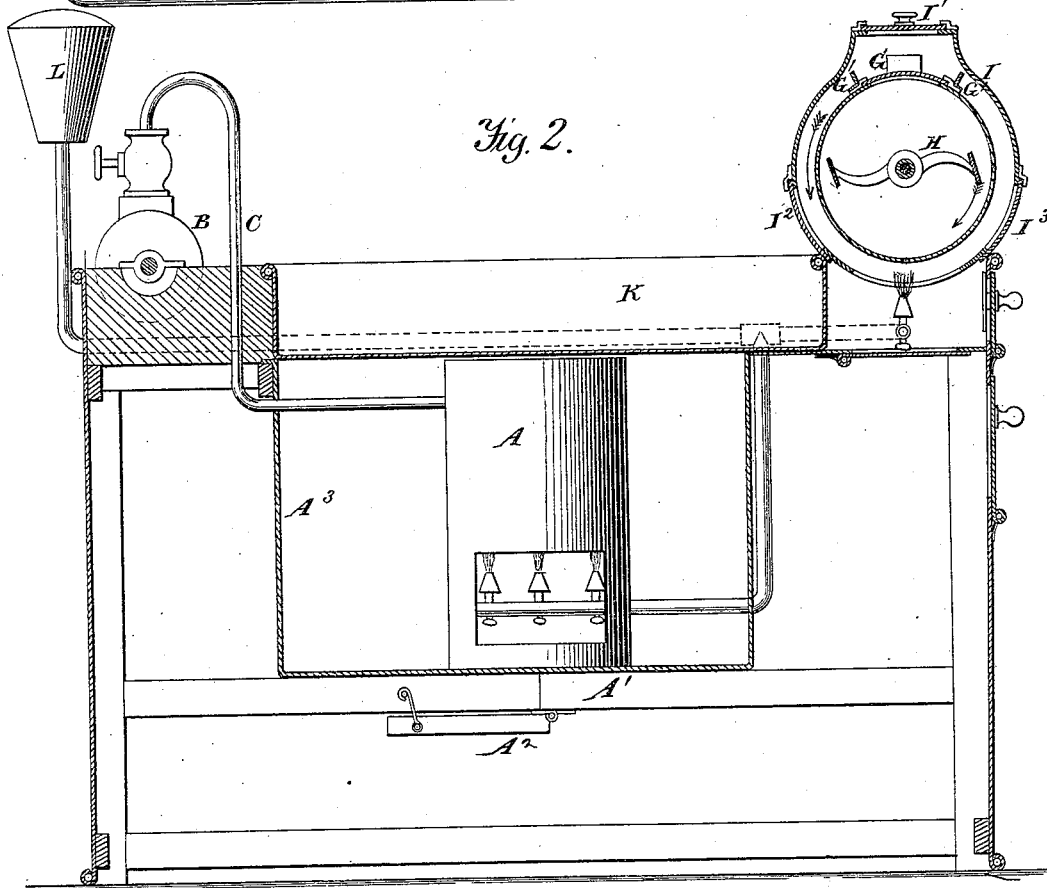
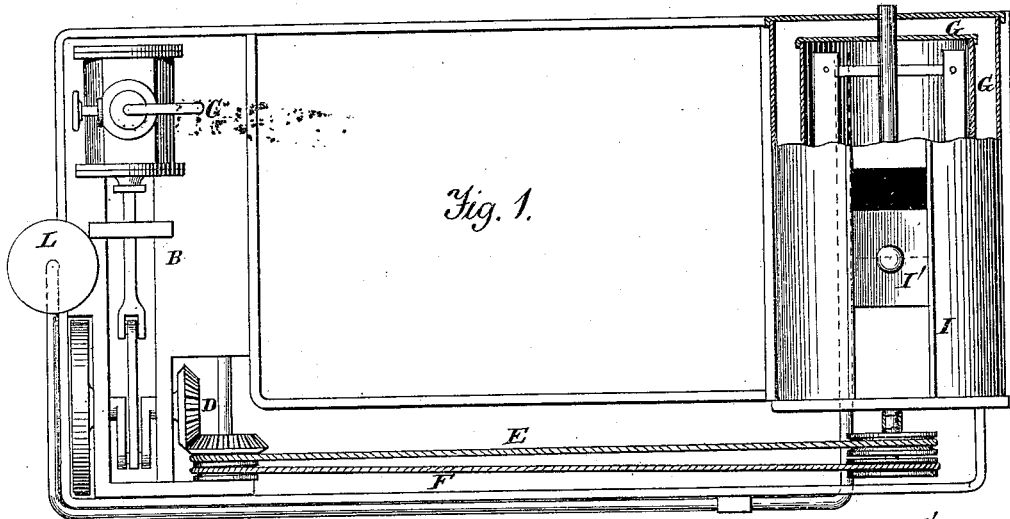


W. E. VERNON.  
Coffee or Nut Roaster.

No. 205,589.

Patented July 2, 1878.



Witnesses.  
A. Ruppert.  
J. G. Mason.

W. E. Vernon  
Inventor.  
D. P. Holloway & Co  
Attys

# UNITED STATES PATENT OFFICE.

WILLIAM E. VERNON, OF OSKALOOSA, IOWA.

## IMPROVEMENT IN COFFEE OR NUT ROASTERS.

Specification forming part of Letters Patent No. 205,589, dated July 2, 1878; application filed April 11, 1878.

*To all whom it may concern:*

Be it known that I, WILLIAM ELIAS VERNON, of Oskaloosa, in the county of Mahaska and State of Iowa, have invented new and useful Improvements in Coffee or Nut Roasters, of which the following is a specification:

In the annexed drawing, making a part of this specification, Figure 1 is a plan view, partly in section. Fig. 2 is a longitudinal vertical central section.

The same letters are employed in both figures in the indication of identical parts.

The object of this invention is the construction of a roaster that shall be compact and portable, all the parts for heating and operating the same being included in a single frame.

The apparatus is mounted on a stout rectangular frame, the boiler A being centrally placed, resting upon cross-beams A<sup>1</sup>, which are supported at their point of intersection by the hinged leg A<sup>2</sup>, which may be folded up, as shown in Fig. 2, when the machine is being transported. The boiler rests on the bottom of a sheet-iron chamber, A<sup>3</sup>, attached to the frame, and is heated by lamps or gas-burners placed under it. B is an engine of any approved style, resting upon one end of the frame, and placed transversely thereto. Steam is applied to the cylinder through the pipe C, and the engine drives a bevel-wheel, D, placed on the end of the crank-shaft, and communicating motion through another to pulleys driving the belts EF, the former of which communicates rotary motion to the shell G of the roaster. The other (one of the belts being crossed) communicates rotary motion in the opposite direction to the stirrer. The cylinder G is enclosed in an iron casing, I, provided with a slide, I<sup>1</sup>, through which the material to be operated upon may be introduced through a cor-

responding slide in the cylinder, on either side of which there are flanges G', intended to make a spout for delivering the material through the slides I<sup>2</sup> or I<sup>3</sup> when the opening in the cylinder is coincident with either of the openings in the casing.

Burners are also placed under the roasting-cylinder for the purpose of roasting the material, which may then be drawn off through the door I<sup>3</sup> or through the door I<sup>2</sup> into a pan, K, placed over the boiler and chamber A<sup>3</sup>, so that it is maintained in a heated condition for the purpose of keeping the nuts warm. The heat may be maintained by the consumption of gasoline contained in a tank, L, and drawn through pipes to the lamps.

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

1. In combination with the frame, the boiler, engine, and rotary roaster and pan K, placed in such relation to the boiler that it is heated by the waste heat of the steam-generator, substantially as set forth.

2. In combination, the boiler, the casing A<sup>3</sup>, and the pan K and roaster, substantially as set forth.

3. In combination with the case I, fitted with delivery-doors I<sup>2</sup> I<sup>3</sup>, and cylinder G, with a corresponding delivery-door, the flanges G', for delivering the materials across the space between the cylinder and its casing, substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WILLIAM ELIAS VERNON.

Witnesses:

W. F. MARK,  
C. WOODRUFF.