

(No Model.)

3 Sheets—Sheet 1.

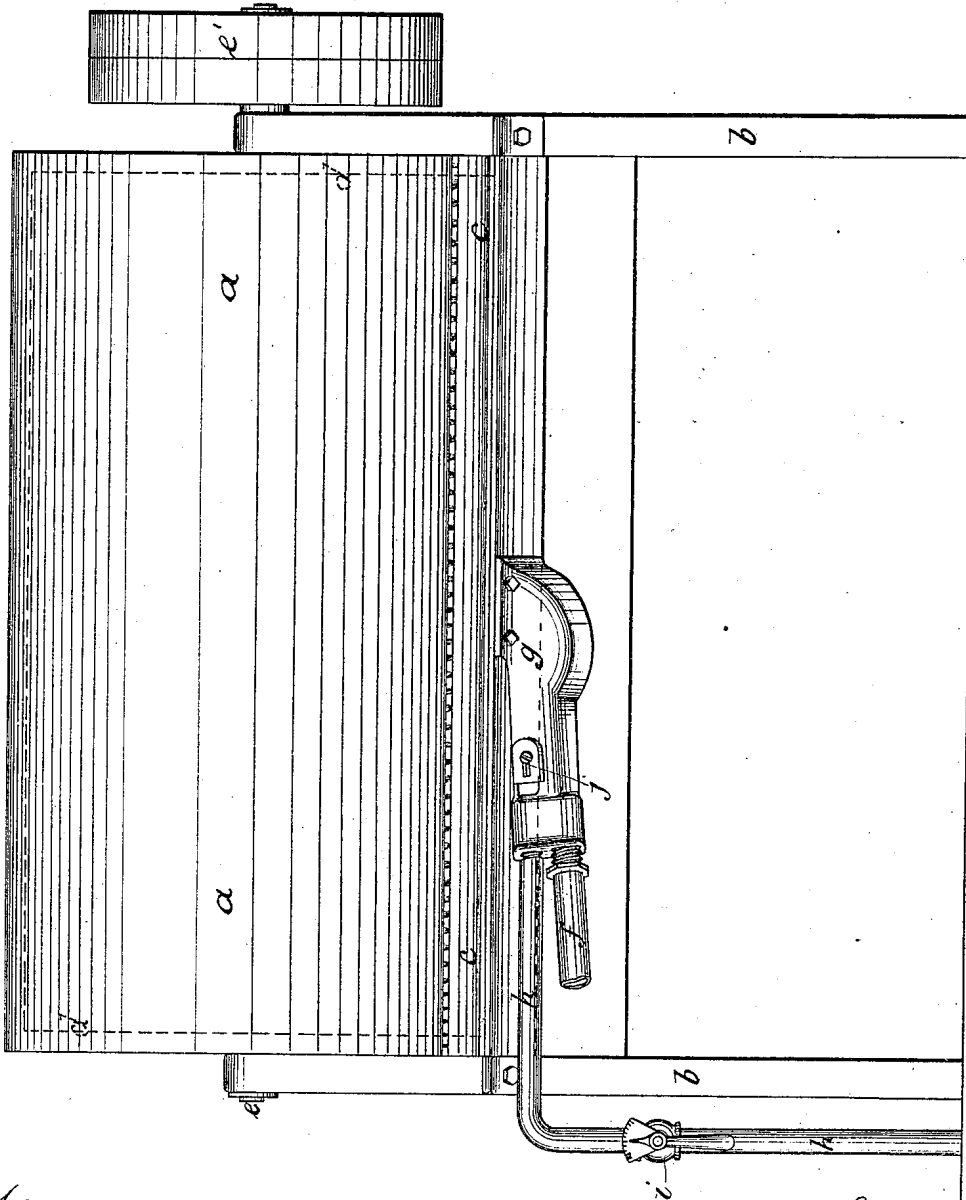
H. FAULDER.

COFFEE ROASTING APPARATUS.

No. 252,933.

Patented Jan. 31, 1882.

Fig. 1.



Witnesses
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Inventor
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(No Model.)

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Fig. 2.

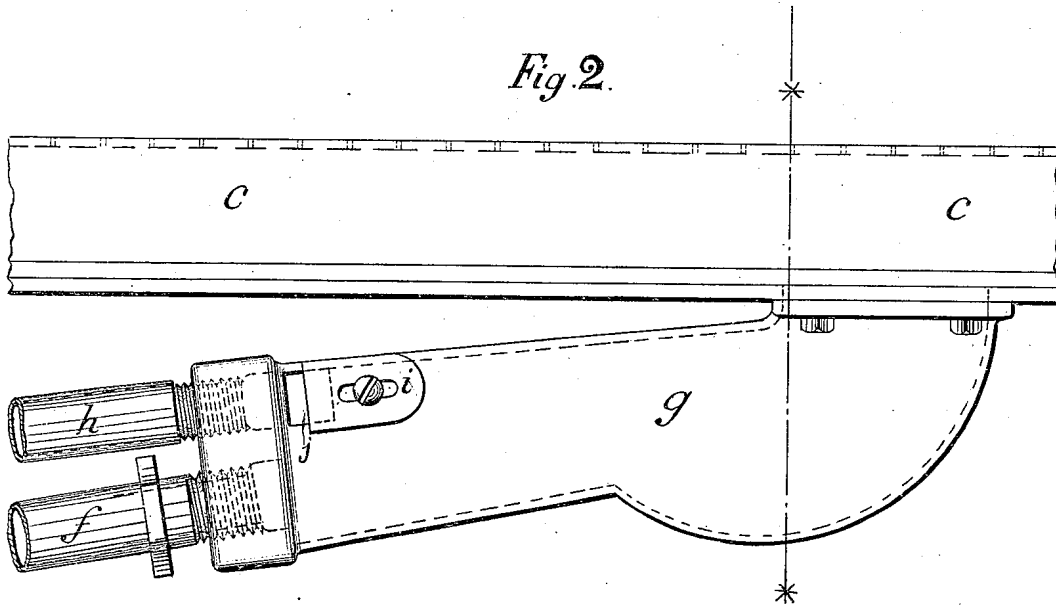
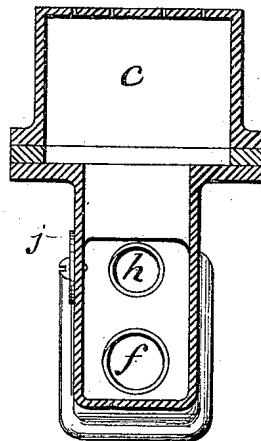


Fig. 3.



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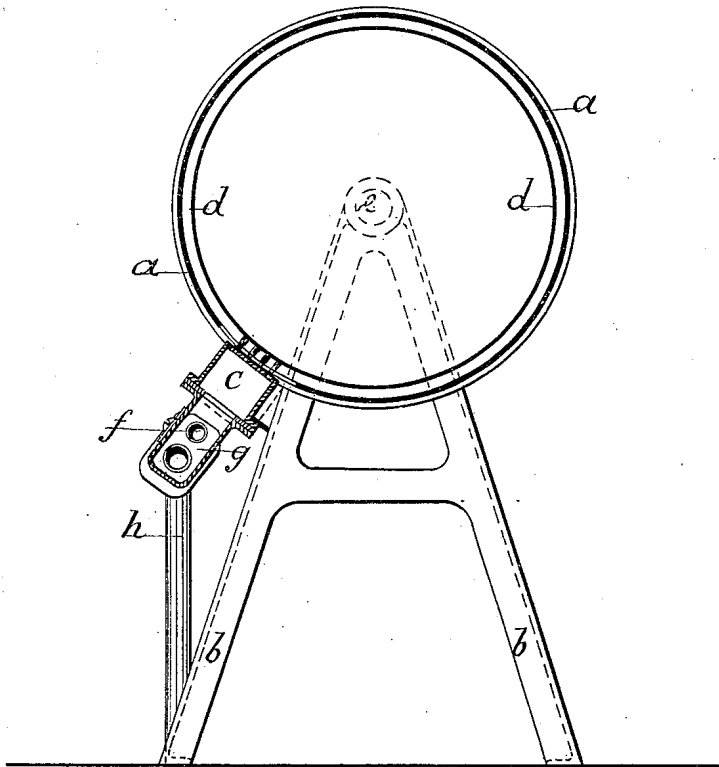
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Fig. 4.



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Inventor
Henry Faulder
per Woodhull & Grant
his Attorneys

UNITED STATES PATENT OFFICE.

HENRY FAULDER, OF STOCKPORT, COUNTY OF LANCASTER, ENGLAND.

COFFEE-ROASTING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 252,933, dated January 31, 1882.

Application filed June 13, 1881. (No model.) Patented in England September 2, 1879.

To all whom it may concern:

Be it known that I, HENRY FAULDER, a subject of the Queen of Great Britain, residing at Stockport, in the county of Lancaster, Kingdom of Great Britain, have invented a new and useful Coffee-Roasting Apparatus, (for which I have obtained a patent in Great Britain, No. 3,507, bearing date September 2, 1879,) of which the following is a specification.

My invention relates to improvements in coffee-roasting apparatus in which a revolving cylinder containing the coffee to be roasted is heated by means of a burner supplied with a mixture of gas and air; and the objects of my improvements are, first, to supply the burner with gas and air under pressure, and, secondly, to expedite and improve the roasting process. I obtain these objects by the apparatus illustrated in part on the accompanying sheets of drawings, in which—

Figure 1 is a front view of the roasting-cylinder and gas and air burner. Fig. 2 is a front view of the burner, drawn as when removed from the cylinder. Fig. 3 is a cross-section on the line * * in Fig. 2.

The cylinder *a*, supported on legs or standards *b*, is heated by means of the gas and air burner *c*. Within the cylinder *a* a revolving cylinder, *d*, containing the charge of coffee to be roasted, is mounted on the axis *e*, on which pulleys *e'* are fixed and driven from any suitable motor. I supply a current of air to the burner *c* under a greater pressure than the gas-supply through the air-pipe *f*, which is screwed

into one end of a chamber, *g*, bolted to the under framing of the rectangular box forming the burner, the burner *c* being formed with a series of perforations or jets. The air is forced through the pipe *f* and into the burner *c* by means of an air-pump. The gas flows through the pipe *h*, which is screwed into the chamber *g*. The gas and air mix together in the chamber *g*, and are carried to the burner *c* by the said forced blast of air, which urges the flame to an intense heat. The pipe *h* is supplied with a gas-regulating valve, *i*. An air-inlet opening, *j*, is formed in the chamber *g*, and is provided with a sliding cover for the purpose of regulating the admission of atmospheric air into the chamber *g*. By these means the coffee is better roasted, and a greater percentage or "return" of coffee obtained, combined with expediency in roasting.

I am aware that prior to my invention gas and atmospheric air has been used in connection and combined with coffee-roasting apparatus. I therefore do not claim such a combination, broadly; but

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

The combination of the revolving cylinder *b*, outer casing, *a*, burner-chamber *c*, valved mixing-chamber *g*, valved pipe *h*, and air-pump, for the purpose specified.

HENRY FAULDER.

Witnesses:

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FERDINAND BOSSHARDT.