

(No Model.)

J. S. ROWLAND.

COAL OIL HEATER.

No. 254,052.

Patented Feb. 21, 1882.

Fig. 2.

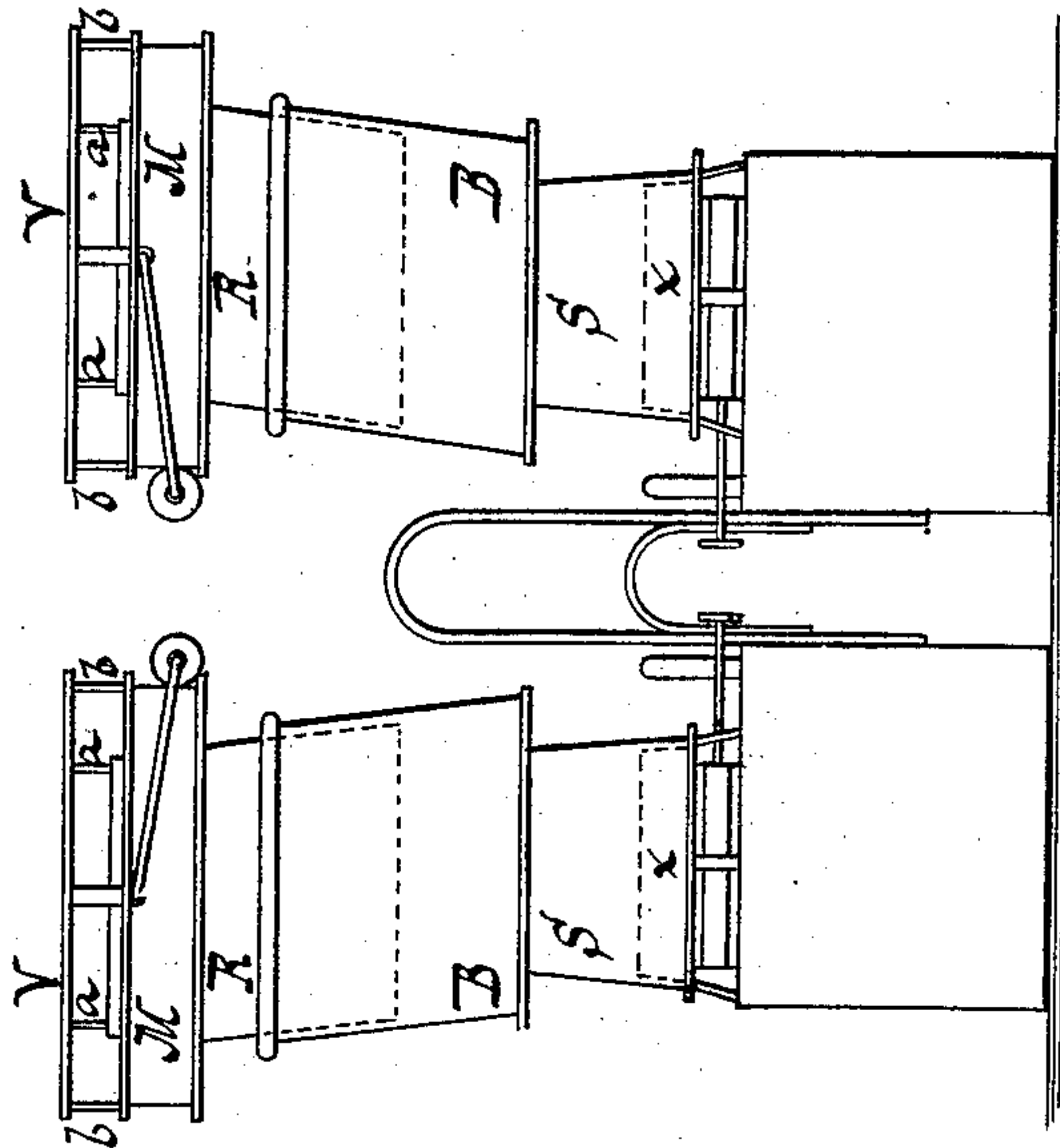
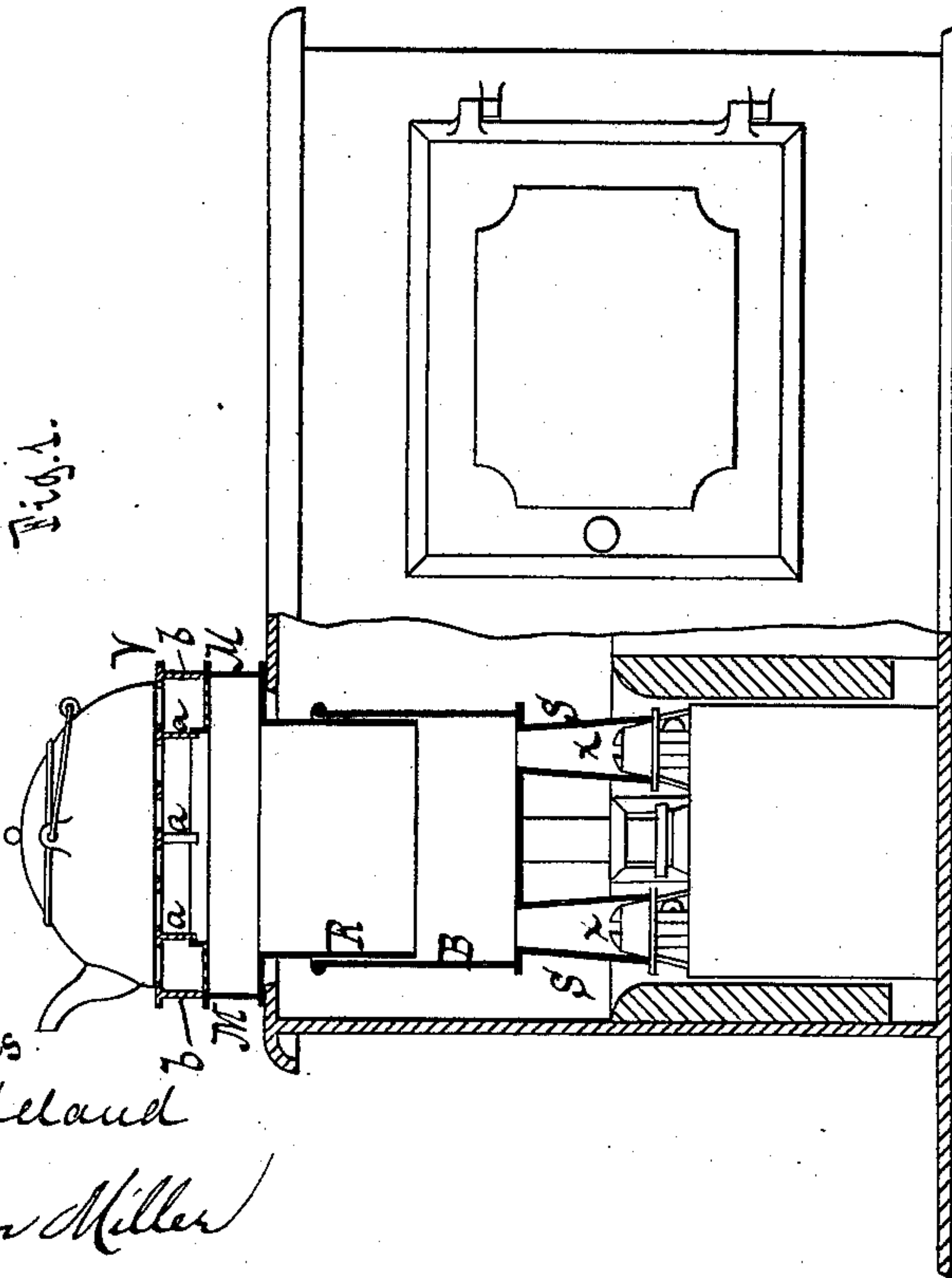


Fig. 1.



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UNITED STATES PATENT OFFICE.

JARED S. ROWLAND, OF JAMAICA, NEW YORK.

COAL-OIL HEATER.

SPECIFICATION forming part of Letters Patent No. 254,052, dated February 21, 1882.

Application filed November 7, 1881. (No model.)

To all whom it may concern:

Be it known that I, JARED S. ROWLAND, a citizen of the United States, residing at Jamaica, in the county of Queens and State of New York, have invented new and useful Improvements in Coal-Oil Stoves, of which the following is a specification.

This invention relates to an improvement in the kind of apparatus for heating or cooking by the use of kerosene or coal oil for which I have obtained United States Letters Patent, No. 248,611, on October 25, 1881; and it consists in providing such heating or cooking apparatus with a casing and an adjustable hollow cylinder sliding on said casing, so as to form an air-guide which can be adapted to the varying heights of fire-compartments in different coal or wood stoves in which my heating or cooking apparatus may be placed. Said adjustable hollow cylinder carries a drum and stand for accommodating various articles to be heated, as hereinafter more fully set forth.

In the drawings, Figure 1 is an end view, partly in section, showing my apparatus in a stove. Fig. 2 is a side elevation of my apparatus.

Similar letters indicate corresponding parts.

The cones *x x* surround the wick-tubes, and to these cones *x x* are fitted, as closely as easy placing will allow, the chimneys *S S*, which latter rest on flanges of said cones *x*, as shown. The chimneys *S* extend upward any desired height, and their tops are formed into flanges and riveted or otherwise firmly attached to the bottom of the casing *B*. The casing *B* is of sheet-iron, and at its bottom is of an elongated or elliptical form to conform to the shape of the chimney-tops, while the top of said casing may be made oval, circular, or of any other desired form. The casing *B* may be made to rise up vertically or at an angle, as its fitting into the stove fire-box may require. Into this casing fits loosely a hollow cylinder, *R*, forming with said casing an air-guide. This hollow cylinder *R*, which delivers the heated air to the drum *M*, is free to slide in the casing *B* upward or downward, to accommodate itself to varying heights of fire-boxes. The top of the hollow cylinder *R* is flanged and riveted or fastened to the hot-air drum *M*, the two forming practically one piece.

The hot-air drum *M* may be constructed of two flat disks of sheet-iron provided with cen-

tral openings having upwardly-projecting flanges of unequal height, forming cylinders of such relative diameters that one will slide into the other, the two constituting a drum, the ends of which have the central openings aforesaid. The outer flange being made of greater height than the other, its projecting edges are turned inwardly upon one end of the drum, and the two parts of said drum are thus secured firmly together.

The article to be heated is placed upon a stand, *V*, which is of about equal circumference with the drum *M*, and is supported on short standards *b b*, resting on the upper surface of the drum. Said stand *V* is also provided with standards *a a*, which extend down into the circular opening in said drum *M* and prevent lateral displacement of the stand *V*.

It should be stated that the top of the drum *M*, in addition to its large central opening, may be provided with a series of smaller perforations, as shown in Fig. 1.

The hollow cylinder *R* is made to fit somewhat tightly into the casing *B*, so as to require some pressure to slide the said cylinder *R* up or down and form a tight joint. As by this arrangement of casing *B* and cylinder *R* an air-guide is obtained readily adjustable for varying heights of fire-boxes, it will be at once perceived that my apparatus can be used in a variety of stoves, securing great convenience and saving time and labor.

A bail-handle may be secured to the drum *M*, as shown in the drawings.

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

1. A coal-oil heater provided with casing *B* and adjustable hollow cylinder *R*, sliding on said casing and carrying a drum, *M*, substantially as and for the purpose set forth.

2. A coal-oil heater provided with casing *B* and adjustable hollow cylinder *R*, carrying the drum *M* and stand *V*, substantially as and for the purpose set forth.

3. A coal-oil heater provided with chimneys *S*, casing *B*, and adjustable hollow cylinder *R*, carrying the drum *M* and stand *V*, substantially as and for the purpose set forth.

JARED S. ROWLAND.

Witnesses:

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