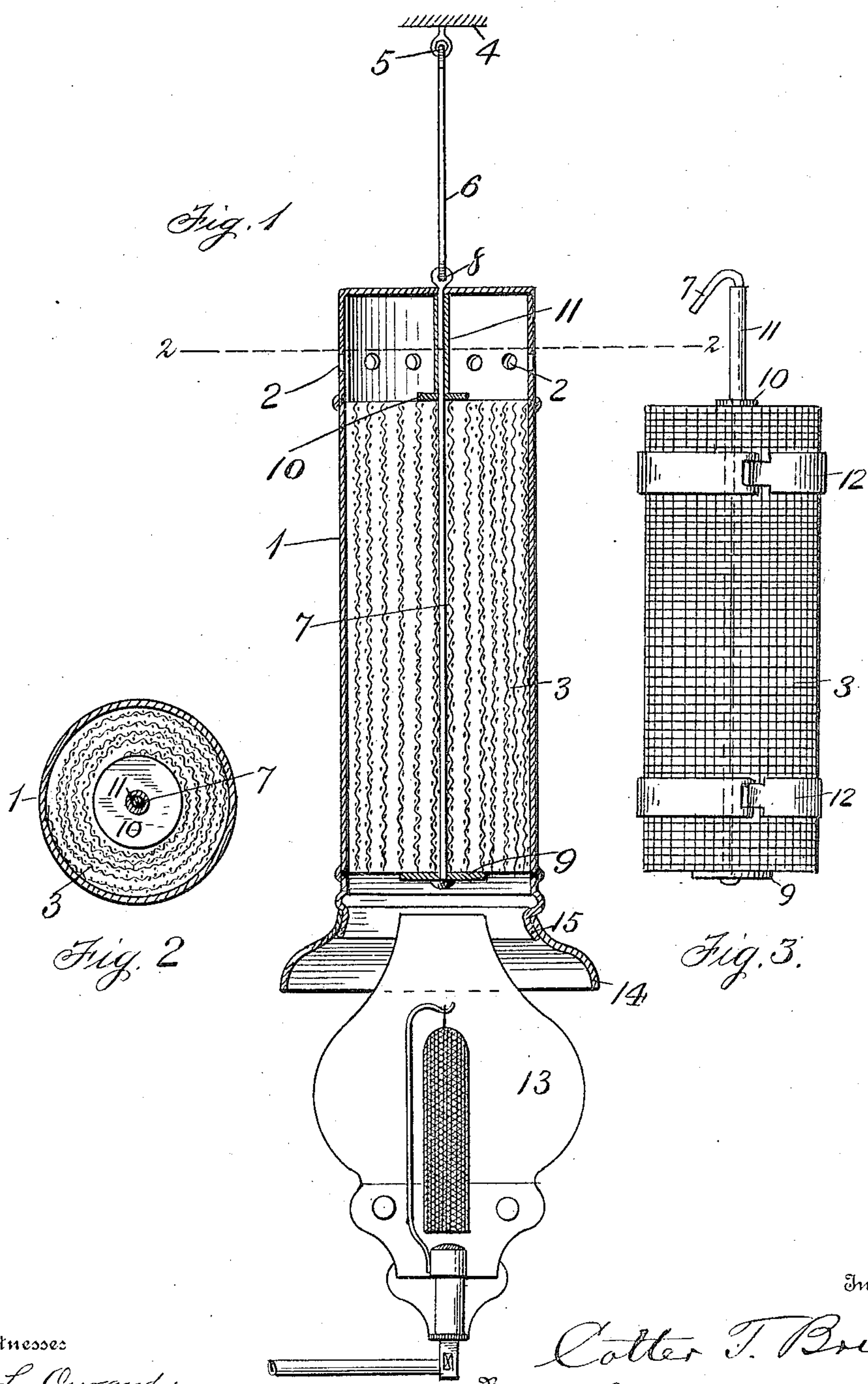


No. 875,044.

PATENTED DEC. 31, 1907.

C. T. BRIDE.
HEATER.

APPLICATION FILED APR. 24, 1907.



Witnesses
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UNITED STATES PATENT OFFICE.

COTTER T. BRIDE, OF WASHINGTON, DISTRICT OF COLUMBIA.

HEATER.

No. 875,044.

Specification of Letters Patent.

Patented Dec. 31, 1907.

Application filed April 24, 1907. Serial No. 369,927.

To all whom it may concern:

Be it known that I, COTTER T. BRIDE, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Heaters, of which the following is a specification.

My invention relates to heaters, and more particularly to that class designed for suspension over an incandescent, Welsbach burner, or the like; and has for its object to so construct the same, that it may be easily and cheaply manufactured, its parts easily assembled or replaced, and will possess the maximum degree of durability.

A further object is not only to direct, collect, and radiate the heat, but also to act as a smoke bell or collector for the products of combustion thrown off by the burner.

In the drawings forming a part of this specification, and in which like symbols of reference represent corresponding parts in the several views:—Figure 1 is a vertical, sectional view of the heater as it appears suspended above a burner; Fig. 2 is a transverse section of the same, on the line 2—2, Fig. 1; and, Fig. 3 is a view of the coil or netting detached from its inclosing casing.

1 represents the casing of the heater, having openings 2 at its upper portion; 3 a coil of wire netting within the casing; 4 the ceiling from which it is suspended; and 5 an eye-screw connecting it with the ceiling.

6 is a link or hook engaging the eye-screw.

The wire netting is wound upon a rod or support 7, and said rod 7 is of a texture or strength to be bendable and thus permit the formation of a loop or eye 8.

9 represents a disk at the bottom of the rod 7, for the purpose of holding the netting properly in place; and 10 represents a disk at the top, the latter disk having a tubular portion 11 extending from the same. The object of the said disks is to hold the netting in proper relation within the casing or inclosure 1.

12 are bands of leather or metal, which are adapted to hold the netting in its rolled position preparatory to placing it in the casing 1, and by means of which it may be easily kept in stock and handled, as desired.

13 represents the burner over which the device is employed.

14 is a smoke collar to direct the heat into the device, said collar adapted to have the rim portion 15 of the casing 1 flared within the same to hold it in its proper position.

The operation will be apparent from the above description. The parts of the device may be carried in stock and replaced with little trouble and expense; and it is so easy of construction that an ordinary stove-pipe and collar may be used as its principal parts. This device collects and radiates heat with great power, as will be readily seen.

Having now fully described my invention, what I claim as new and desire to secure by Letters-Patent, is:—

1. In a device of the character described, a main inclosing casing formed with outlets at its upper portion and a flared lower end, a netting adapted to be received within the casing, means sustaining and holding the netting below the outlets, and a collar adapted to be received and sustained upon the flared portion of the casing.

2. In a heater, a main casing, a supported netting within the same, a rod upon which the netting is coiled, a tube upon the upper portion of the rod to hold the netting in its proper position, and sustaining means for the device.

3. A main inclosing casing, a supported netting within the same, a rod upon which the netting is held, and means for holding the netting in its proper relative position upon the rod.

In testimony whereof I affix my signature in presence of two witnesses.

COTTER T. BRIDE.

Witnesses:

J. WM. REILLY,
JOHN A. SAUL.