(No Model.)

J. T. WHEELER.

FUEL CARTRIDGE.

No. 382,671. Patented May 8, 1888.

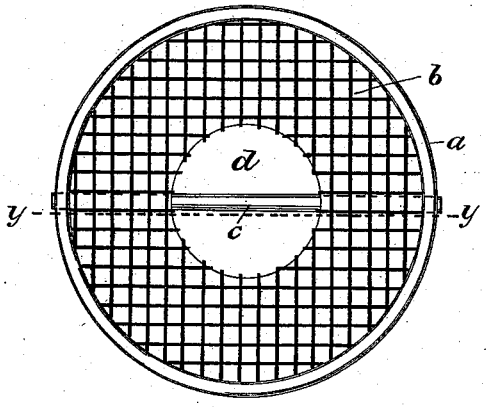

Fig. 1

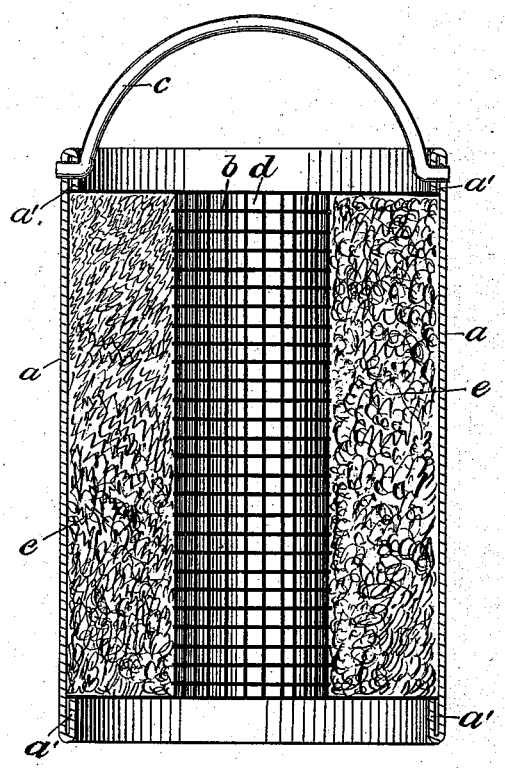

Fig. 2

Witnesses;
Isaac L. Clark.
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UNITED STATES PATENT OFFICE.

JOHN T. WHEELER, OF CHICAGO, ILLINOIS.

FUEL-CARTRIDGE.

SPECIFICATION forming part of Letters Patent No. 382,671, dated May 8, 1888.

Application filed September 5, 1887. Serial No. 248,771. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. WHEELER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fuel-Cartridges, which are fully set forth in the following specification, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 shows a plan view of my improved fuel-cartridge, shown on its bottom. Fig. 2 is a vertical sectional elevation on a plane, *y y*, as shown in Fig. 1, parallel with and near its bail or handle *c*, which is parallel to the plane of the paper.

Like letters of reference indicate like parts.

The object of my invention is to construct a fuel-cartridge in which the combustion of the absorbed mineral or other inflammable material may be regulated and controlled in the manner substantially as hereinafter specified. To attain said end I construct my improved fuel-cartridge substantially as follows, namely: I provide a sheet-metal cylinder, *a*, capable of resisting the necessary heat and of suitable dimensions and proportions, adapted to the place where it is to be used—say, about four or five inches in diameter by six or seven high—and fasten annular wire-cloth heads *b*, fitting within said cylinder about from half an inch to near an inch from the ends thereof. Said annular heads are connected by means of a wire-cloth cylinder fitting within and attached to the inner edge of said annular heads, so as to form a hole, *d*. Said heads are held within said cylinder by any well-known means, preferably in the manner herein shown, by bending the ends of the cylinder *a* inward in the form of a hook, *a'*, upon the end of which rest the heads *b*, and the annular space so formed is filled with asbestus, *e*, or other non-combustible substance saturated with mineral oil.

By constructing a fuel-cartridge as above described I am enabled to control the burning of the absorbed oil as follows, namely: If said cartridge is set upright, as shown, upon a grate, allowing a free upward current of air through the hole *d*, the most active combustion takes place. If a very moderate amount of heat is required, it may be set upon a plate, so as to close the lower end, and this combustion may then be increased by wedging up the bottom, so as to admit air, which may be thus increased until the highest results are obtained. Again, high results may be obtained by laying the cylinder upon its side, so that it may be ignited at both ends; or, again, one end may be blocked up higher than the other, when, by the draft through the hole *d*, the fire will burn out of the upper end until the oil has burned away from that part, after which the fire will burn out of the other end, and so on alternating until all the oil is burned out; or where one end gives out more heat than the other when the cylinder lies horizontal, the draft through the hole *d* will be in that direction until more oil is burned out than at the other end, when the direction of the draft will change until a similar result is reached at the other end, and so on alternating. Said annular heads *b* are set in from the ends of the shell *a* for the purpose of receiving disks, forming part of an apparatus used for the purpose of extinguishing the fire whenever desired, and will form the subject of a separate patent.

What I claim is—

1. A fuel-cartridge formed of a cylindrical outer shell of sheet metal, provided with annular wire-cloth ends, and a central open-end wire-cloth cylinder held by said annular heads, substantially as specified.

2. A fuel-cartridge formed of a cylindrical outer shell of sheet metal, provided with annular wire-cloth heads set back within the ends of said shell, and central wire-cloth tube, substantially as specified.

3. A fuel-cartridge formed of a cylindrical outer sheet-metal shell provided with annular wire-cloth heads set back within the ends of said shell, and a central wire-cloth tube held in place by the inturned ends of the outer shell, substantially as specified.

JOHN T. WHEELER.

Witnesses:
WM. ZIMMERMAN,
L. PICK.